4299

Service Manual

PIONEER®
The Art of Entertainment
TOYOTA

ORDER NO.
CRT1537

LEXUS GS300
AUDIO SYSTEM
MULTI-CD CONTROL
AM/FM CASSETTE DECK

VEHICLE	DESTINATION	PRODUCED AFTER	TOYOTA PART No.	PIONEER MODEL No.
LEXUS GS300	EUROPE	October 1993	86120-3A340-B	KEX-M9036ZT/EW
LEXUS GS300	UNITED KINGDOM IRELAND	October 1993	86120-3A330-B	KEX-M9136ZT/EW

Manufactured for TOYOTA
by PIONEER ELECTRONIC CORPORATION

PUB. No. CRT1537

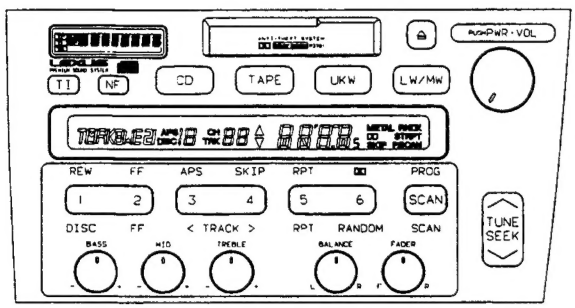
4299

KEX-M9136ZT

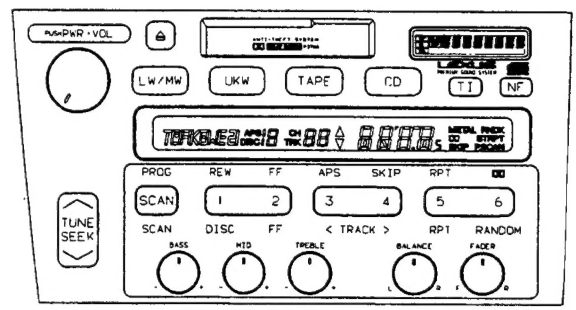
NOTE:

- **See the separate manual CX-156 (CRT-468) for the cassette mechanism description.**
- **Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.**

● **KEX-M9136ZT/EW**



● **KEX-M9036ZT/EW**



CONTENTS

● **These models have been installed in LEXUS GS300.**

Model	TOYOTA PART No.	ID No.	Supplementary Model
KEX-M9136ZT/EW	86120-3A330-B	P3701	KEX-M9136ZT-91/EW
KEX-M9036ZT/EW	86120-3A340-B	P3700	KEX-M9036ZT-91/EW

● **Supplementary models are identical to the original models except for the addition of following items.**

	KEX-M9136ZT-91/EW	KEX-M9036ZT-91/EW
Carton	CHA1719	CHA1719
Styrofoam(Upper)	CHP1157	CHP1157
Styrofoam(Lower)	CHP1158	CHP1158
Cover	CEG1026	CEG1026
Contain Box	CHD1719	CHD1719

SPECIFICATIONS

General
Power source ····· 13.2V(10.5-16.0V allowable)
Grounding system ····· Negative type
Tone control
BASS ····· ±10dB(100Hz)
MID ····· ±10dB(1kHz)
TREBLE ····· ±10dB(10kHz)

Tape Player
Tape ····· Compact cassette tape(C30-C90)
Tape speed ····· 4.76cm/sec.(+0.14cm/sec., -0.05cm/sec.)
Wow & flutter ····· Less than 0.2%(WRMS)
Crosstalk ····· More than 40dB
Stereo separation ····· More than 35dB
Signal-to-noise ratio ···· More than 43dB

FM(UKW) Tuner
Frequency range ····· 87.5-108MHz
Usable sensitivity ····· 9±5dBμV
Signal-to-noise ratio ···· More than 46dB
Distortion ····· Less than 1.5%
Stereo separation ····· More than 20dB

MW Tuner
Frequency range ····· 531-1602kHz
Usable sensitivity ····· 27±6dBμV
Selectivity ····· More than 30dB(±9kHz)
Signal-to-noise ratio ···· More than 42dB

LW Tuner
Frequency range ····· 153-281kHz
Usable sensitivity ····· 29±6dBμV
Selectivity ····· More than 30dB(±9kHz)
Signal-to-noise ratio ···· More than 40dB

1. CONNECTOR FUNCTION DESCRIPTION

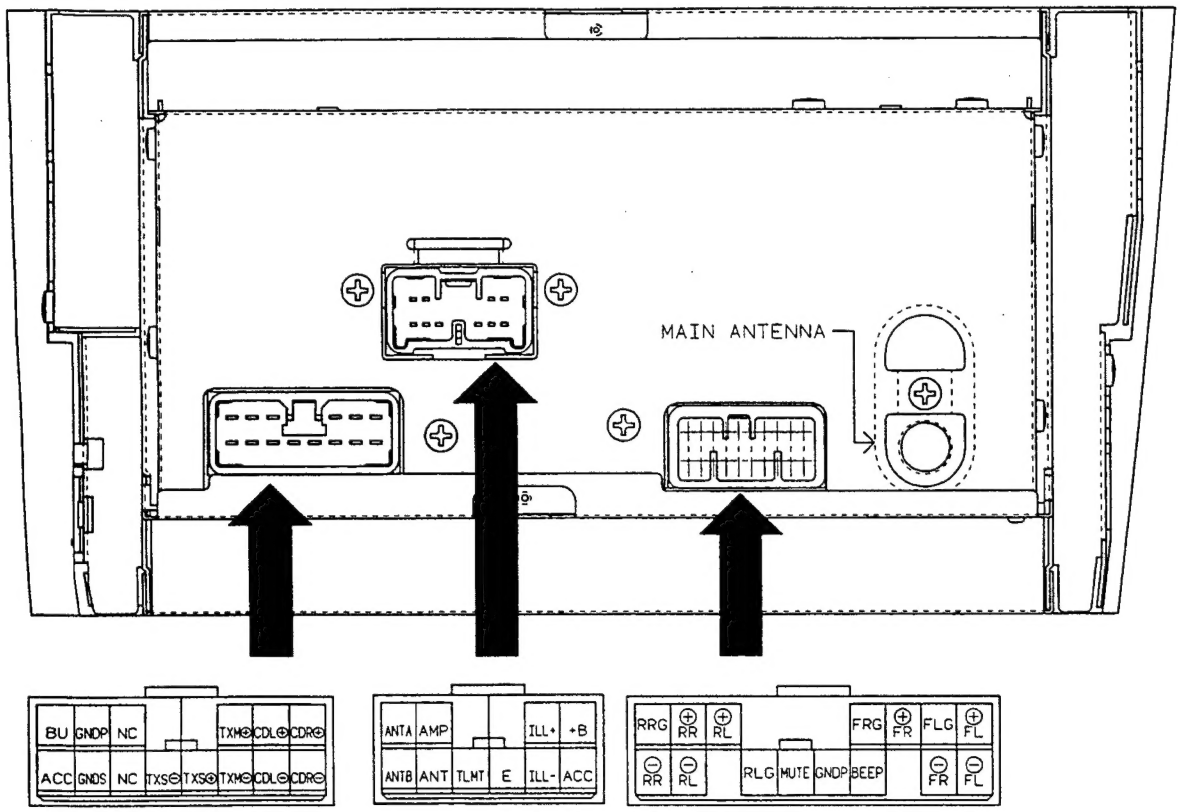


Fig. 1

2. DISASSEMBLY

● Removing the Case

1.Insert and turn a flat screwdriver to remove the case. (Be sure to remove in order of A and B when disassemblung case.)

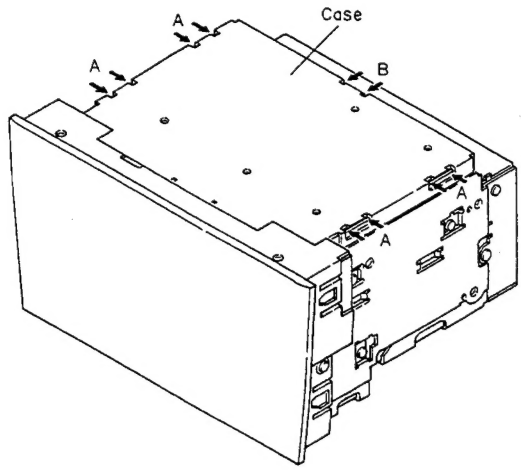


Fig. 2

● Removing the Cassette Mechanism Module

1.Remove the four screws.
2.Disconnect the connector,and then raise the cassette mechanism module.

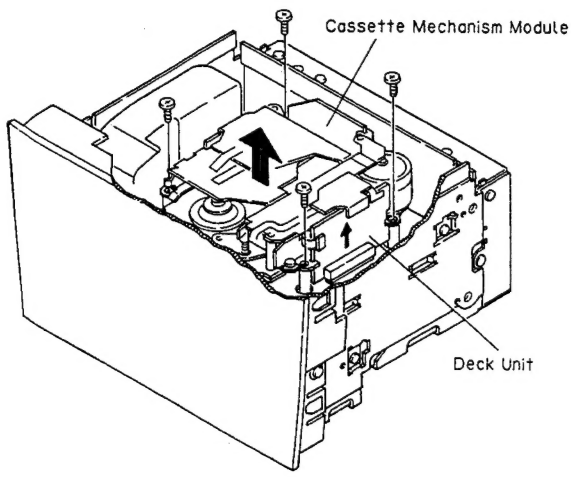


Fig. 3

● Removing the Grille Assy

1.Disconnect the connector,and then remove the two screws.
2.Disengage the stopper at four location indicated by arrows,and remove the grille assy.

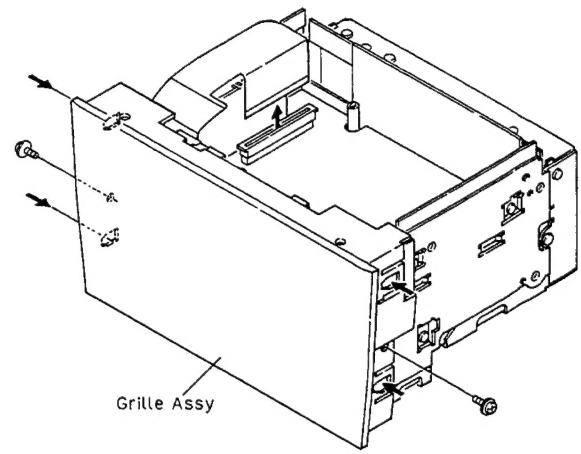


Fig. 4

● Removing the Volume P.C.Board (1),(2), RDS Unit and Key Board(KEX-M9136ZT)

1.Remove the knob.
2.Disconnect the three connectors.
3.Remove the two screws A,and remove the volume P.C. Board(1).
4.Remove the two screws B,and remove the volume P.C. Board(2).
5.Remove the six screws C,and remove the Key Board.
6.Remove the two screws D,and remove the RDS Unit.

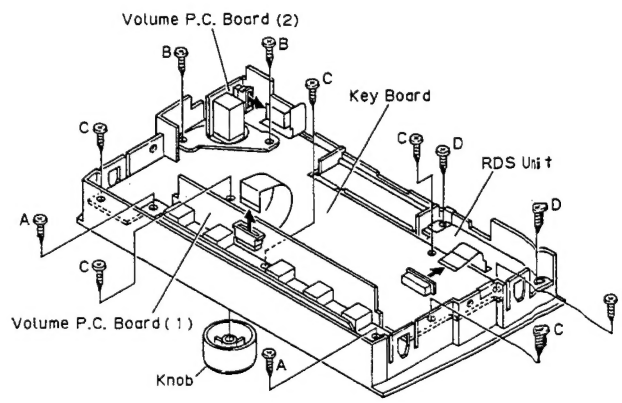


Fig. 5

● Removing the Volume P.C.Board (1),(2), RDS Unit and Key Board(KEX-M9036ZT)

1.Remove the knob.
2.Disconnect the three connectors.
3.Remove the two screws A,and remove the volume P.C. Board(1).
4.Remove the two screws B,and remove the volume P.C. Board(2).
5.Remove the six screws C,and remove the Key Board.
6.Remove the two screws D,and remove the RDS Unit.

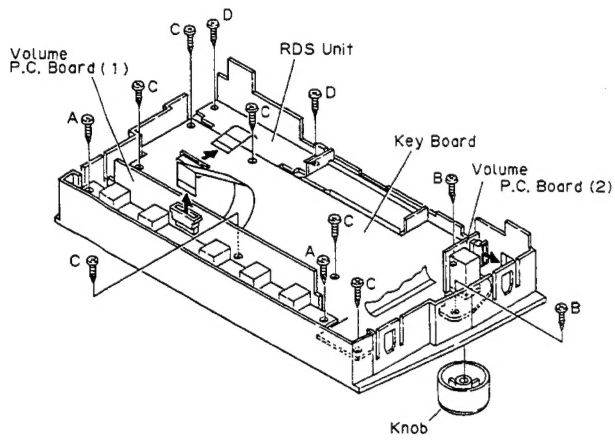


Fig. 6

● Removing the Control P.C.Board

1.Remove the four screws.
2.Disconnect the three connectors.
3.Disengage the stopper at two location indicated by arrows,and then pull out the control P.C.Board.

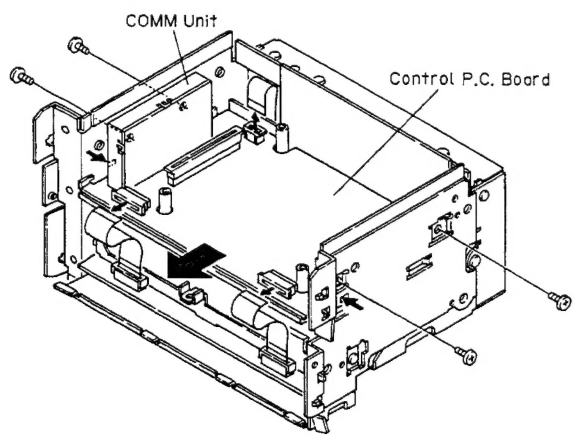


Fig. 7

4.Unbend the tabs at four locations indicated by arrows until straight.
5.Remove the control P.C.Board.

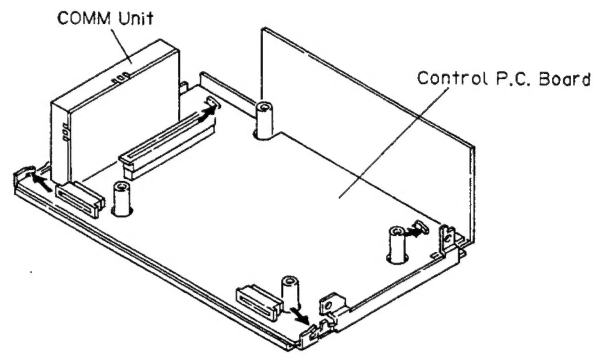


Fig. 8

● Removing the Power Supply P.C.Board

1.Remove the seven screws.
2.Disconnect the connector.
3.Remove the power supply P.C.Board.

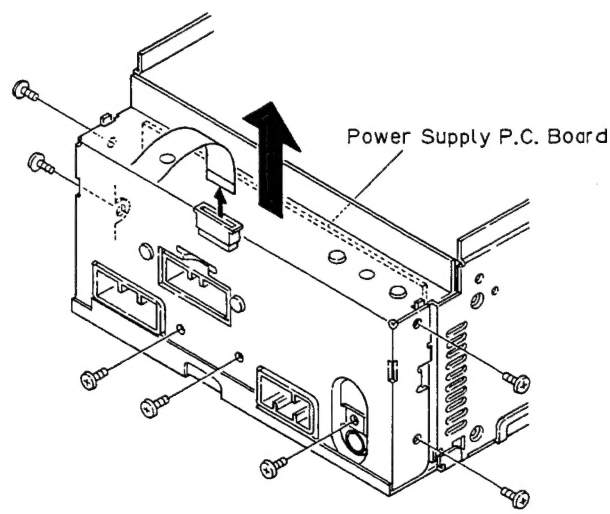


Fig. 9

4.Remove the four screws.
5.Unbend the tabs at two locations indicated by arrows until straight.
6.Remove the power supply P.C.Board.

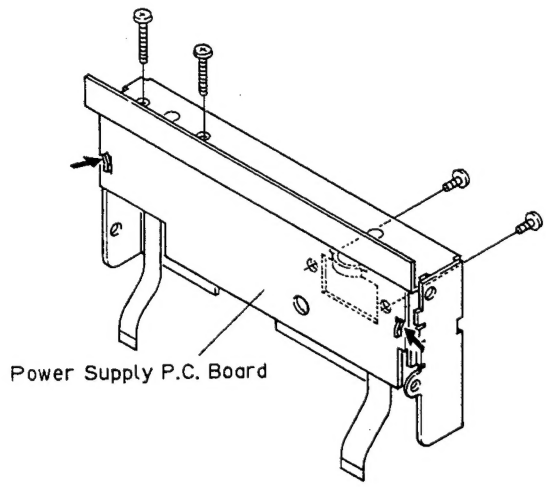


Fig. 10

● Removing the Side Plate and Tuner P.C.Board
1.Remove the two screws.
2.Remove the two side plates.
3.Remove the tuner P.C.Board.

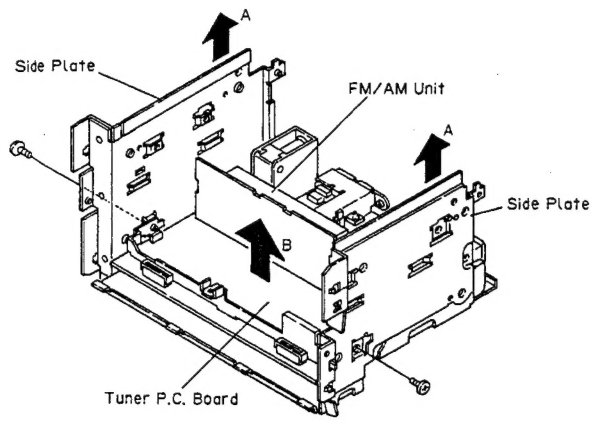


Fig. 11

NOTE:
A specific jig(GGF1235) is needed to remove the connectors indicated by circles
Do not use a jig other than specific one to remove the connector;as to do so may cause damage to the connector.

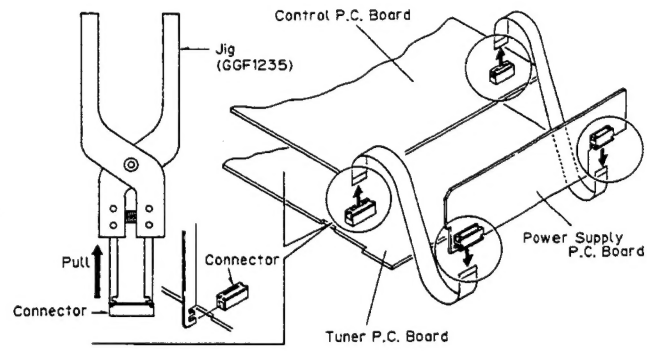


Fig. 12

3. GENERAL GUIDE

3.1 RADIO

● **KEX-M9136ZT/EW**

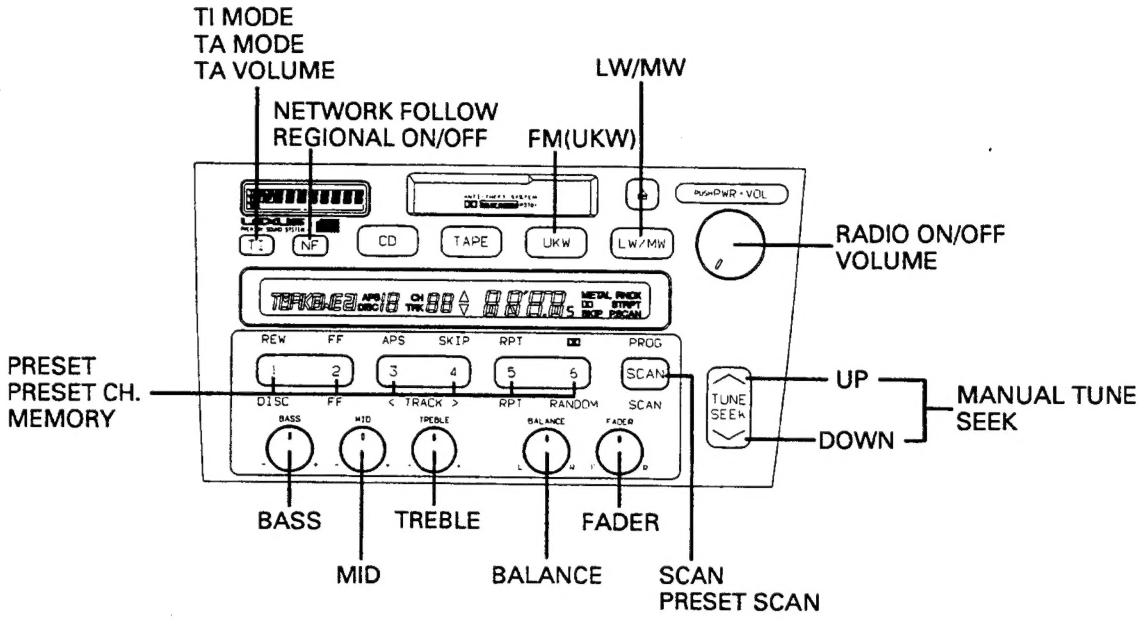


Fig. 13

● **KEX-M9036ZT/EW**

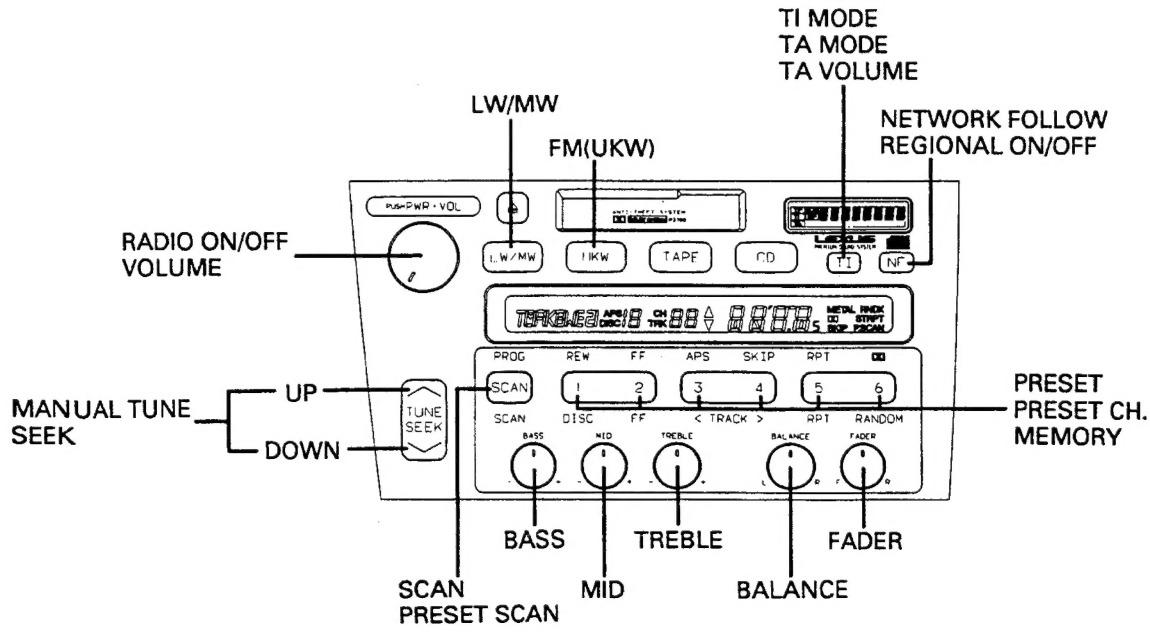


Fig. 14

3.2 TAPE

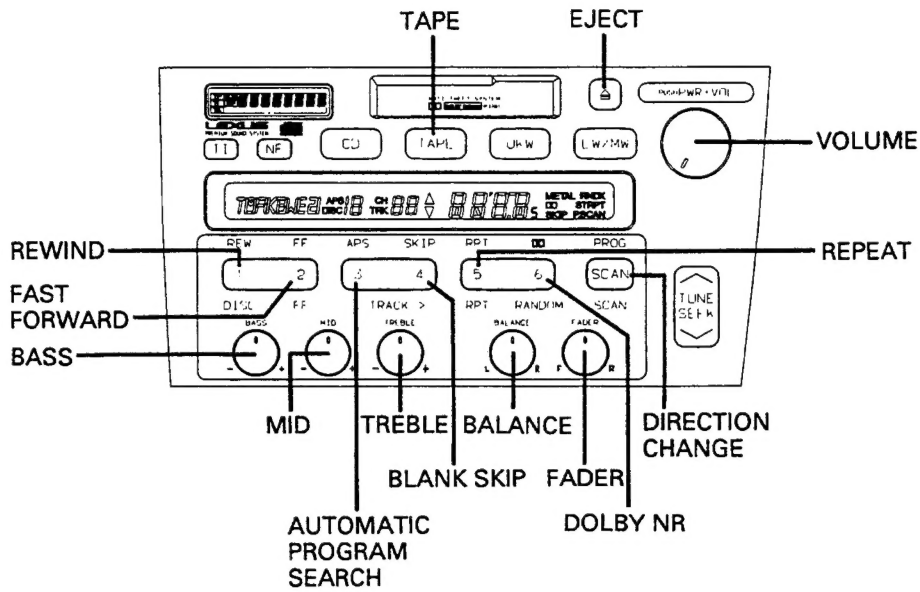


Fig. 15

3.3 CD

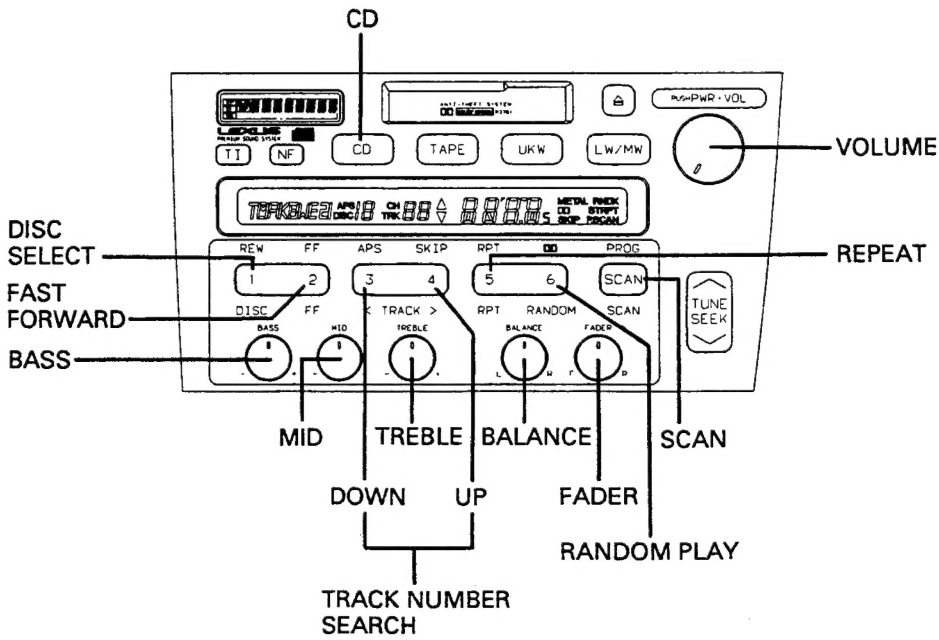


Fig. 16

4. ADJUSTMENT

4.1 TEST MODE

•TEST MODE
Test mode is mainly used in adjustment of CD multi-player.

•Test mode starting procedure
Switch back-up ON while pressing the CD and SCAN keys together.

•Test mode cancellation
Switch the CD multi-player and this unit back-up OFF.

•CD multi-player

key	Function
RANDOM	Regulator ON/OFF
TRACK UP	FWD Kick
TUNE DOWN	REV Kick
TUNE UP	Tracking close
RPT	Focus close
SCAN	Disc change

● **Flow Chart**

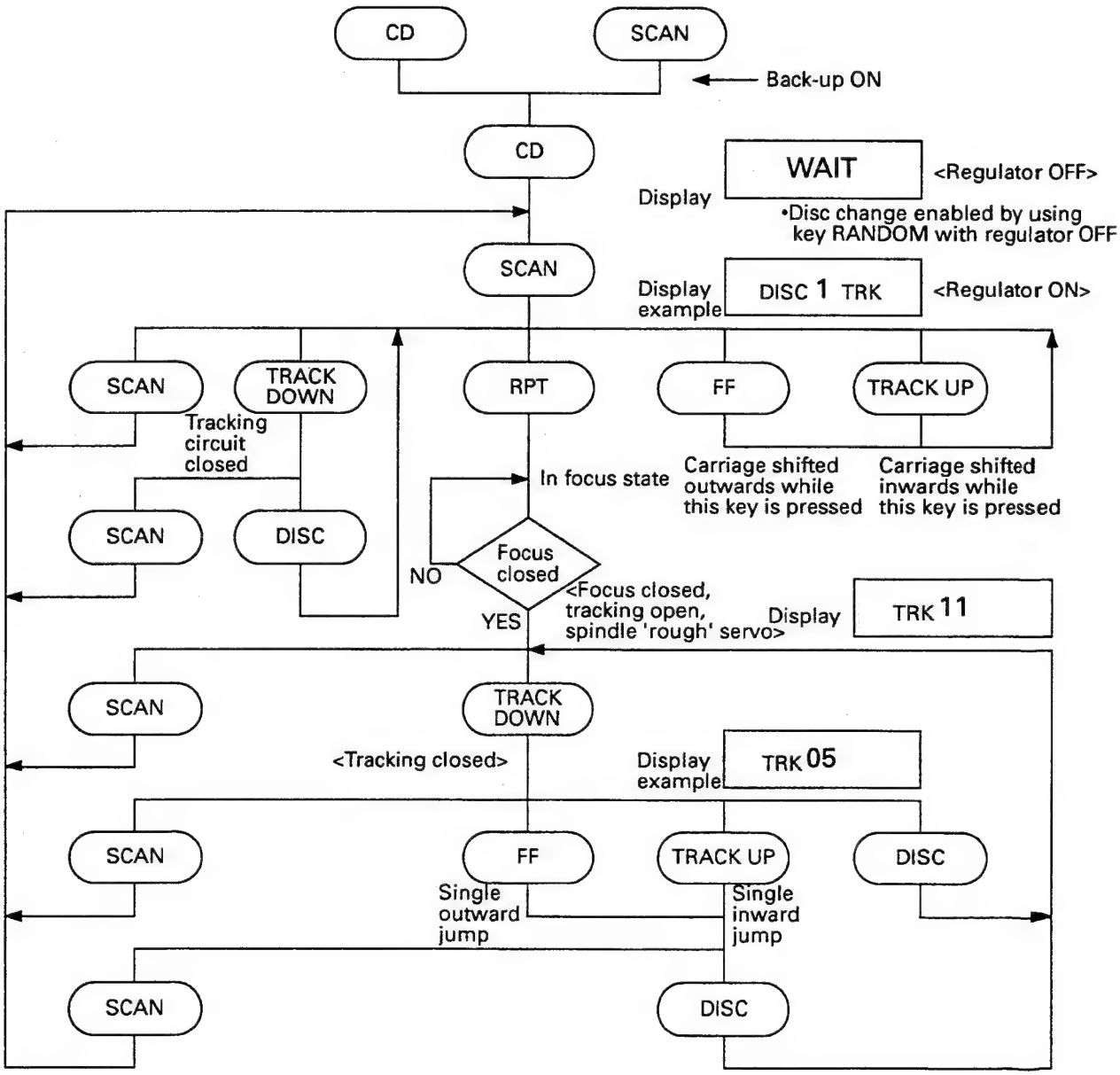


Fig. 17

4.2 AUDIO/TUNER ADJUSTMENT

NOTICE:
Select C1 so that total capacity of 80pF is attained from the direction of the receiver jack.
Z: Output impedance of SSG.

● **Connection Diagram**

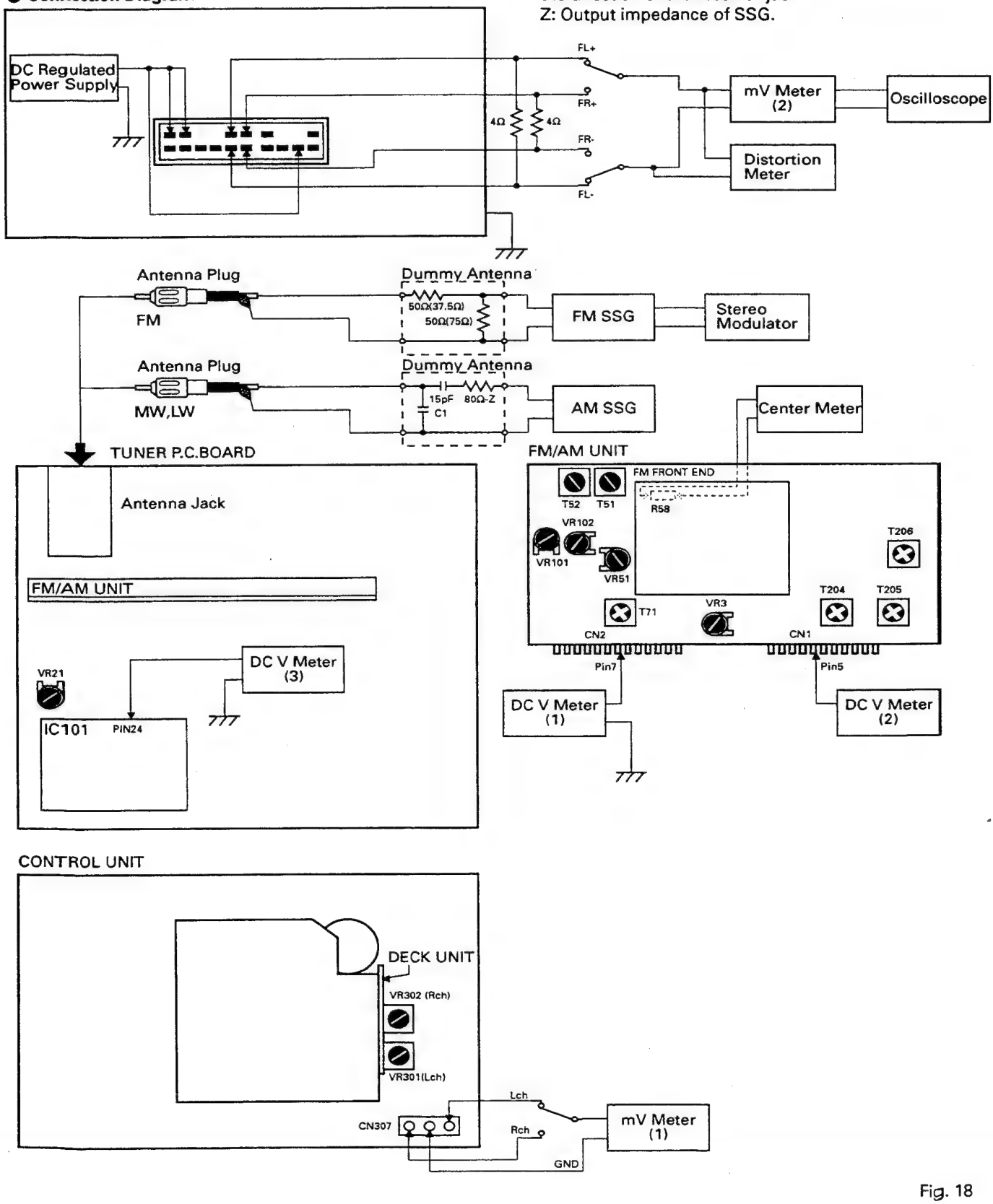


Fig. 18

DOLBY NR ADJUSTMENT

No.	Cassette Tape	Adjusting Point	Adjustment Method (Switch Position)
1	NCT-150(400Hz,200nwb/m)	VR301(Lch) VR302(Rch)	mV Meter(1) : -8.24dBs±1.0dB (DOLBY NR Switch : OFF)

FM(UKW) ADJUSTMENT

*(M1) : Mono MOD.,400Hz,30%,Pilot=10%
*(M2) : Mono MOD.,400Hz,100%,Pilot=10%
*(S1) : Stereo MOD.,1kHz,L+R=30%,Pilot=10%

	No.	FM SSG Frequency(MHz)	FM SSG Level(dBμV)	Displayed Frequency(MHz)	Adjusting Point	Adjustment Method (Switch Position)
IF	1 1	98.0925– 98.0975*(M2)	60	98.1	T51	Center Meter : 0
	2	98.1*(M2)	60	98.1	T52	Distortion Meter : Minimum
	3	Repeat No.1-2 alternately so that the center meter indicates the 0 output and distortion meter indicates minimum output.				
IFT	1	98.1*(M2)	18	98.1	T71	Oscilloscope : Optimum Symmetry
Soft	1	98.1*(M1)	60	98.1		mV Meter(2) : AdB
Mute	2	98.1*(M1)	-∞	98.1	VR102	mV Meter(2) : A-19dB
ARC	1	98.1*(S1)	34	98.1	VR101	mV Meter(2) : Separation 5dB
SD	1	98.1*(M1)	20	98.1	VR51	DC V Meter(1) : Approx. 5V (SEEK : ON)
LOCL	1	98.1*(M1)	45	98.1	VR3	DC V Meter(1) : Approx. 5V (SEEK : ON)

MW,LW ADJUSTMENT

	No.	AM SSG(400Hz,30%) Frequency(kHz)	AM SSG(400Hz,30%) Level(dBμV)	Displayed Frequency(kHz)	Adjusting Point	Adjustment Method (Switch Position)
Tuning	1			1,602		Verify that DC V Meter(2) is less than 6.5V
Volt	2			153		Verify that DC V Meter(2) is more than 2.0V
IF	1	999	15	999	T204,205,206	mV Meter(2) : Maximum

RDS ADJUSTMENT

*(M2) : Mono MOD.,400Hz,100%,Pilot=10%
*(S2) : Stereo MOD.,1kHz,L+R=90%,Pilot=10%

	No.	FM SSG Frequency(MHz)	FM SSG Level(dBμV)	Displayed Frequency(MHz)	Adjusting Point	Adjustment Method (Switch Position)
RDS	1	98.1*(M2)	45	98.1	VR21	DC V Meter(3) : 2.3V±0.1V
IFT	2	98.1*(S2)	60	98.1	T71	Stereo Distortion is minimum

5. ANTI-THEFT SECURITY SYSTEM

5.1 HOW TO INPUT THE THREE DIGIT SECURITY SYSTEM CODE

1. ACCESS MODE

First...

BE SURE THAT:

- the radio unit is turned off
- the ignition switch is in **"ACC"**

Then...

HOLD the "1 [PROG]" and "6" buttons, and simultaneously PUSH and HOLD the "POWER. VOL" knob in, until **"SEC"** appears, then release buttons.

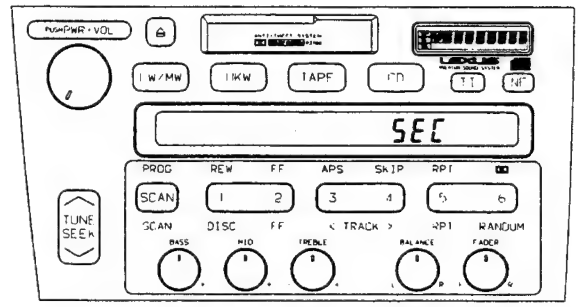


Fig. 19

2. READY MODE

PRESS and HOLD the "TUNE [∧]" button in and PRESS the "1 [PROG]" button. The display will read "▲▼ ---".

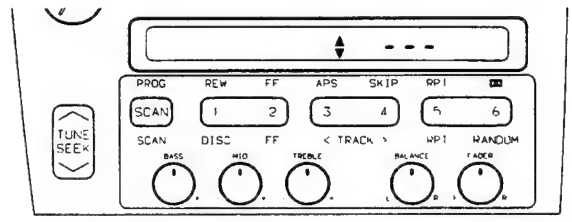


Fig. 20

3. INPUT MODE

Note: User has up to ten seconds to input each digit.

Now you're ready to input a three digit Identification Number.

To set the **first** ID digit:

- PRESS "1[PROG]" repeatedly until the desired number appears on the display

To set the **second** ID digit:

- PRESS "2[APS]" repeatedly until the desired number appears on the display

To set the **third** ID digit:

- PRESS "3[SKIP]" repeatedly until the final desired number appears on the display

EXAMPLE: If the desired ID number is 314, you'd press "1[PROG]" four times, press"2[APS]" twice, and press "3[SKIP]" five times. (Code digits range zero through nine.)

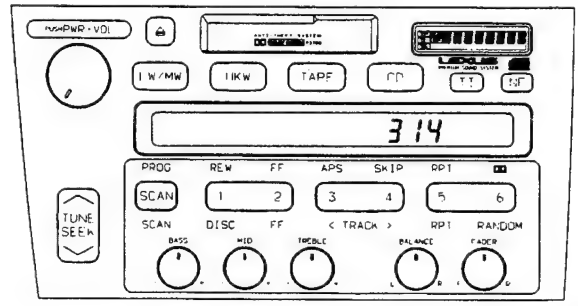


Fig. 21

4. SET MODE

With the ID number now appearing on the display:

- PRESS the "SCAN [SCAN]" button and HOLD it in until **"SEC"** appears for a few seconds, then it will **GO DARK.**

NOTE: 1) CREATE AN ID NUMBER EASY TO REMEMBER
2) KEEP ID NUMBER IN A RELIABLE PLACE
3) DON'T LEAVE ID NUMBER IN THE VEHICLE!

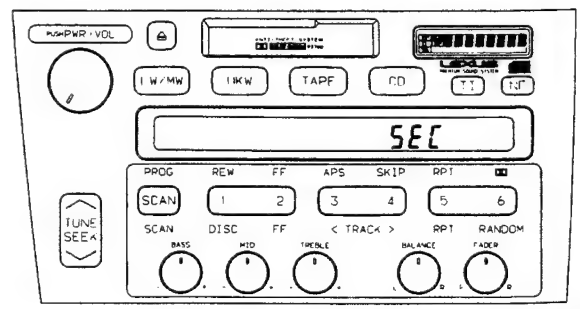


Fig. 22

5.2 HOW TO CHANGE THE THREE DIGIT SECURITY SYSTEM CODE

1. ACCESS MODE
First...
BE SURE THAT:
- the radio unit is turned off
- the ignition switch is in **"ACC"**

Then...
HOLD the "1 [PROG]" and "6" buttons, and simultaneously PUSH and HOLD the "POWER. VOL" knob in, until **"SEC"** appears, then release buttons.

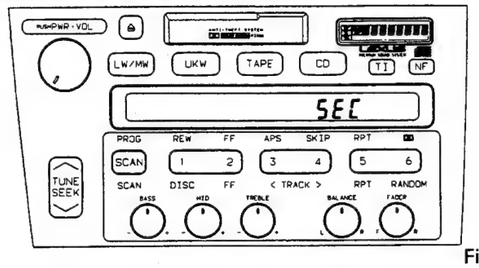


Fig. 23

2. READY MODE
PRESS and HOLD the "TUNE [∧]" button in and PRESS the "1 [PROG]" button. The display will read "▲ ---".

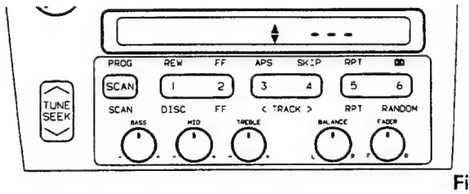


Fig. 24

3. INPUT MODE
Input existing three digit ID numbers.

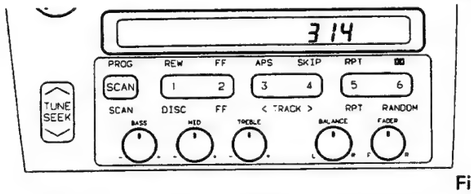


Fig. 25

4. SET MODE
Then, push "SCAN[SCAN]". The display will now read "---" continuously.
*("**ERR**" See "ERROR MESSAGE")

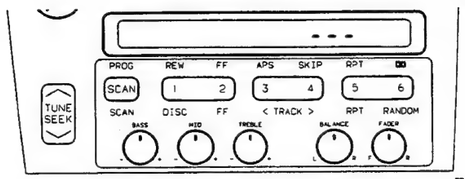


Fig. 26

5. READY MODE
PUSH "TUNE [∧]" and "1 [PROG]" simultaneously. The display will read "▲ ---".

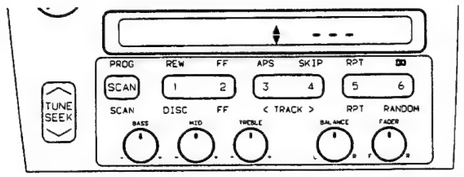


Fig. 27

6. INPUT MODE
Now you're ready to input a new three digit Identification Number.

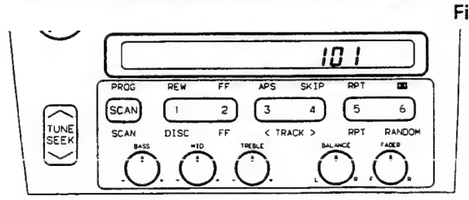


Fig. 28

7. SET MODE
With the ID number now appearing on the display:

- PRESS the "SCAN [SCAN]" button and HOLD it in until **"SEC"** appears for a few seconds, then it will **GO DARK**.

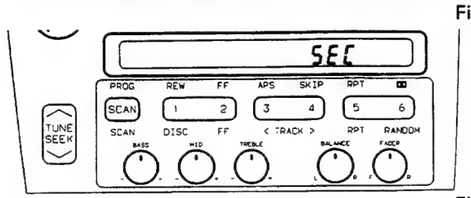


Fig. 29

5.3 HOW TO CLEAR THE SECURITY CODE

1. ACCESS MODE
First...
BE SURE THAT:
- the radio unit is turned off
- the ignition switch is in **"ACC"**

Then...
HOLD the "1 [PROG]" and "6" buttons, and simultaneously PUSH and HOLD the "POWER. VOL" knob in, until **"SEC"** appears, then release buttons.

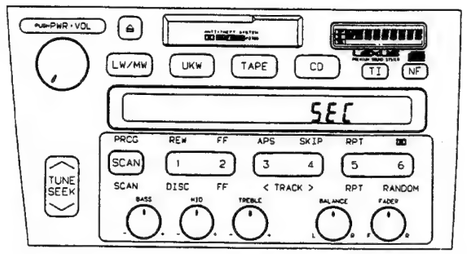


Fig. 30

2. READY MODE
PRESS and HOLD the "TUNE [∧]" button in and PRESS the "1 [PROG]" button. The display will read "▲ ---".

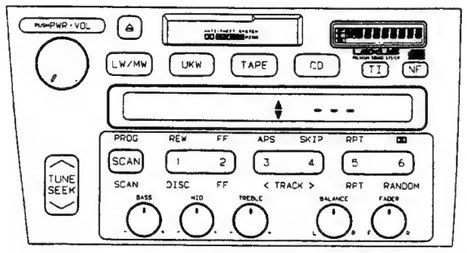


Fig. 31

3. INPUT MODE
Input existing three digit ID numbers.

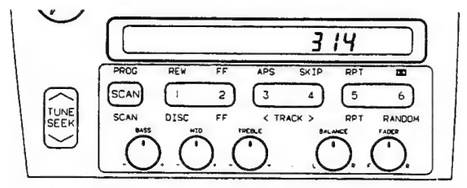


Fig. 32

4. SET MODE
Then, push "SCAN[SCAN]". The display will now read "---" continuously.
*("**ERR**" See "ERROR MESSAGE")

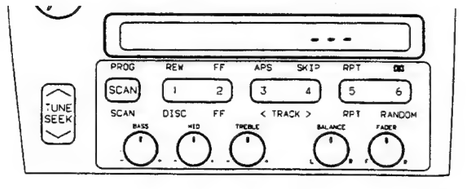


Fig. 33

5. WAIT for ten seconds. The security system clears itself and the display will **GO DARK.**

*(The security code should be cleared when the vehicle is resold.)

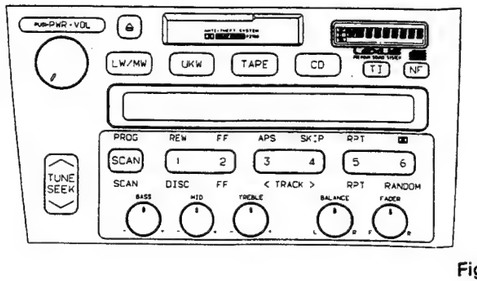


Fig. 34

5.4 HOW TO REACTIVATE A DISABLED ETR

1. If the power is disconnected by an attempted theft or loss of battery power, the display will read **"SEC"** continuously when the key is "on". Also, when the ignition key is turned to ACC, none of the ETR functions will function.

2. READY MODE
PRESS and HOLD the "TUNE [∧]" button in and PRESS the "1 [PROG]" button. The display will read "▲ ---".

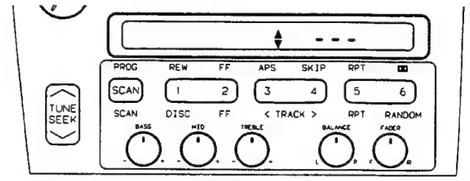


Fig. 35

3. INPUT MODE
Now you're ready to input the existing three digit Identification Number.

To set the **first** ID digit:
- PRESS "1[PROG]" repeatedly until the desired number appears on the display

To set the **second** ID digit:
- PRESS "2[APS]" repeatedly until the desired number appears on the display

To set the **third** ID digit:
- PRESS "3[SKIP]" repeatedly until the final desired number appears on the display

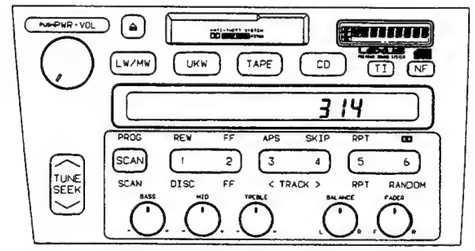


Fig. 36

EXAMPLE: If the desired ID number is 314, you'd press "1[PROG]" four times, press"2[APS]" twice, and press "3[SKIP]" five times. (Code digits range zero through nine.)

Note: User has up to ten seconds to input each digit.

4. SET MODE
With the ID number now appearing on the display:

- PRESS the "SCAN [SCAN]" button and HOLD it in until **"SEC"** appears for a few seconds, then it will **GO DARK.**

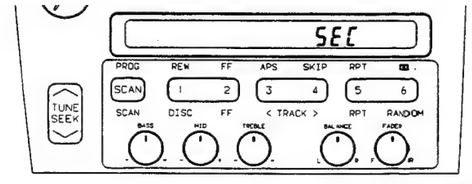


Fig. 37

ERROR MESSAGE
If the wrong buttons are pushed, **"Err"** will apear before **"SEC"** appears. Go back to Step 2 and try again. Or, if the display returns to "▲ ---" during your input, try again from Step 3. BUT:

BE CAREFUL! On the tenth wrong input, the ETR unit goes dead and must be reactivated by an authorized service station.

TO VERIFY that the ID number has been accepted as the security code, turn the key "off", then turn it back on, **"SEC"** should appear. Once the anti-theft system is properly set, **"SEC"** will appear on the display each time the ignition key is turned to **"ACC"** after being off.

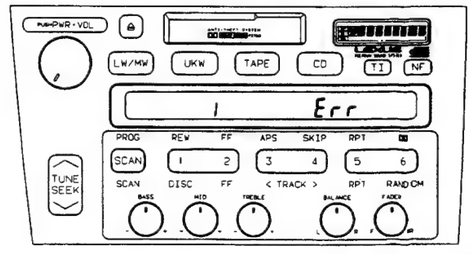


Fig. 38

6.BLOCK DIAGRAM

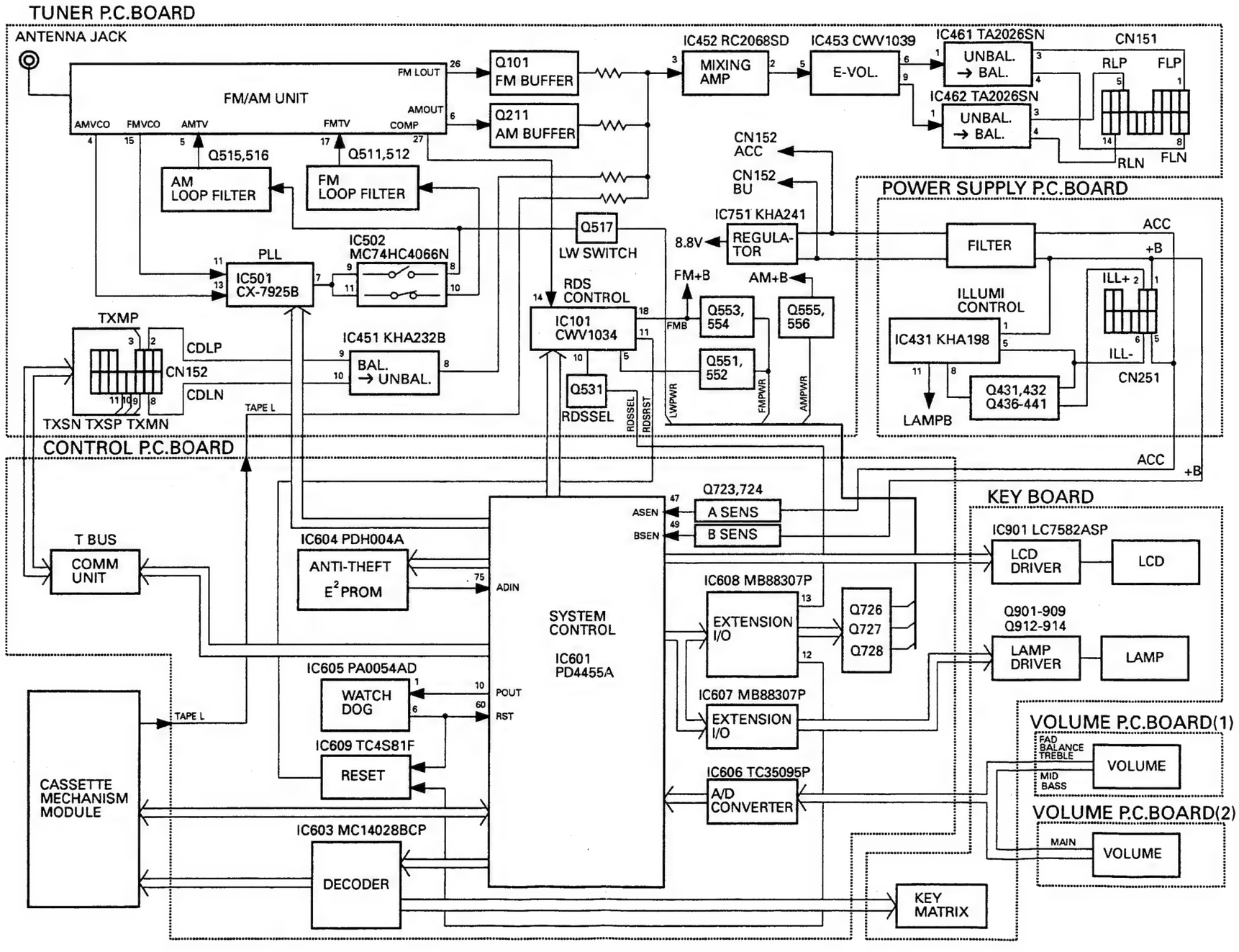
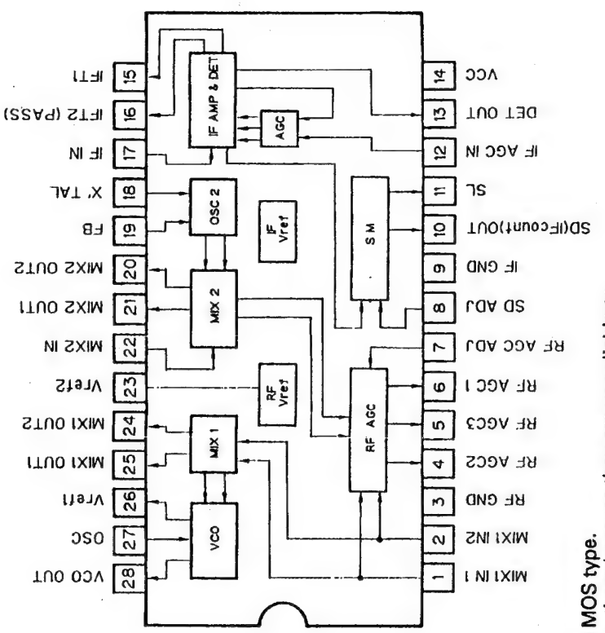


Fig. 39

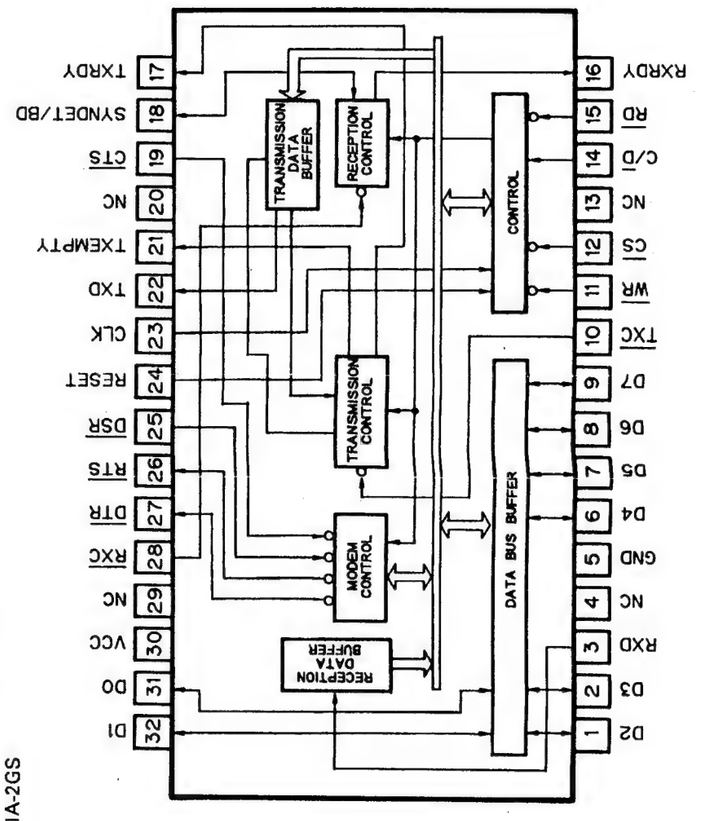
●ICs

PAF001A

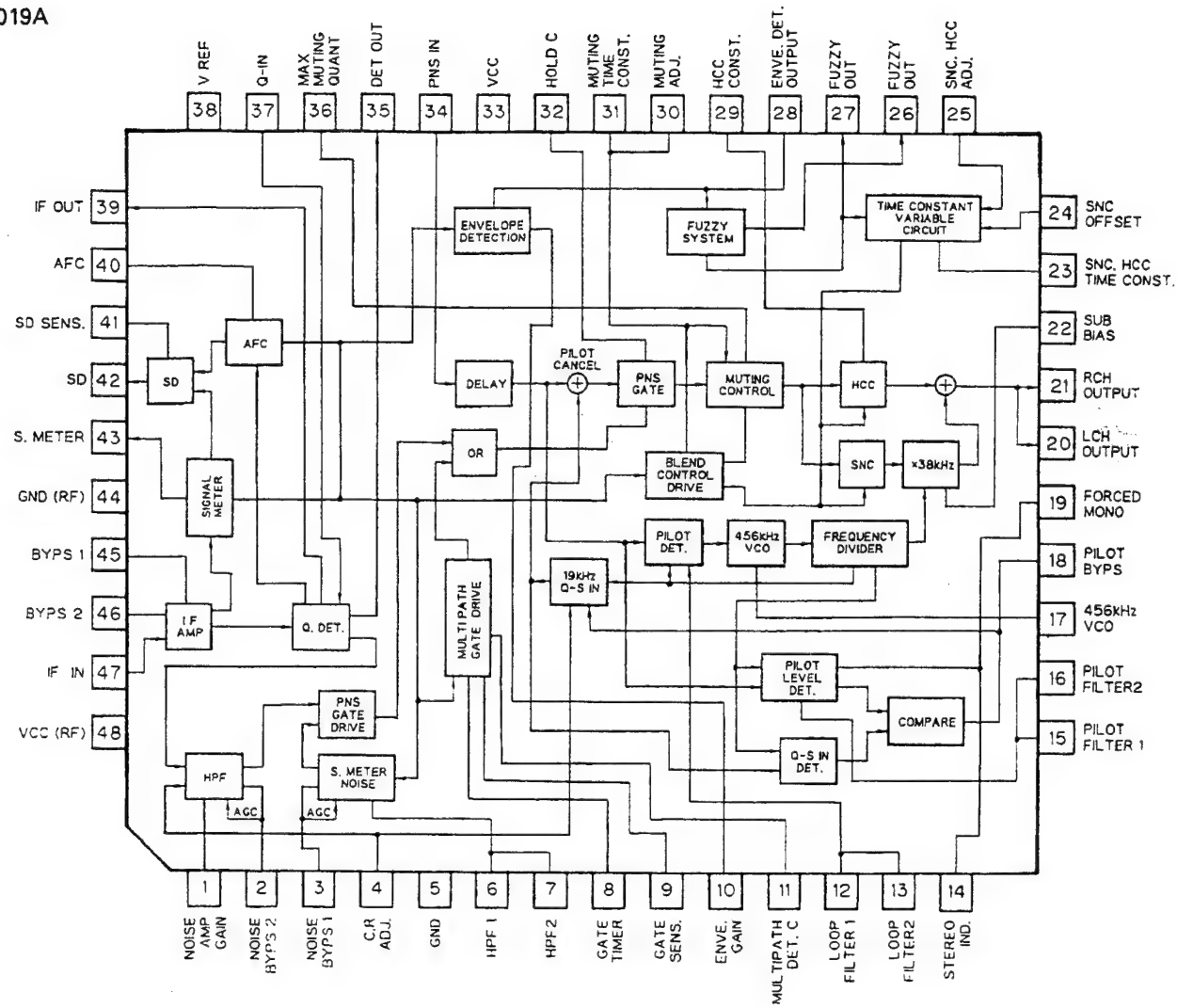


IC's marked by* are MOS type.
Be careful in handing them because they are very liable to be damaged by electrostatic induction.

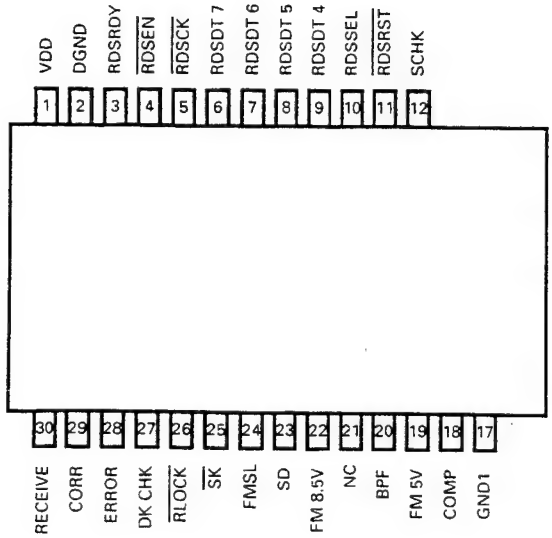
*MSM82C51A-2GS



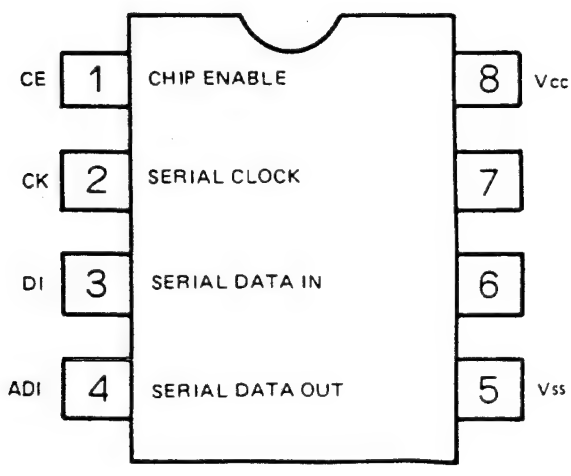
PA4019A



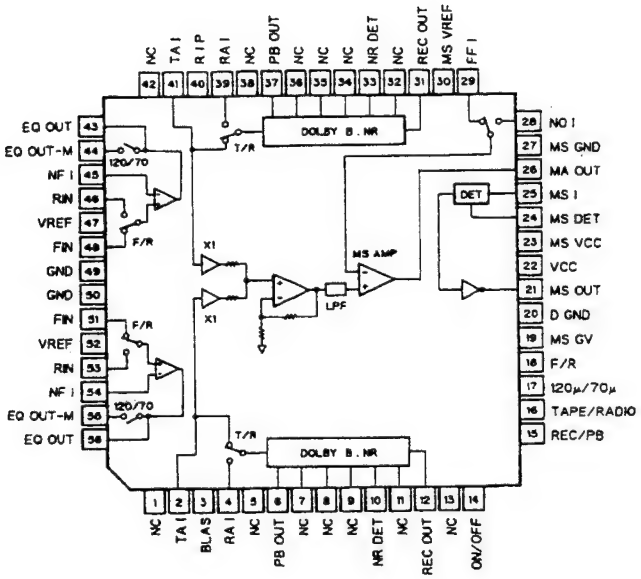
CWV1034



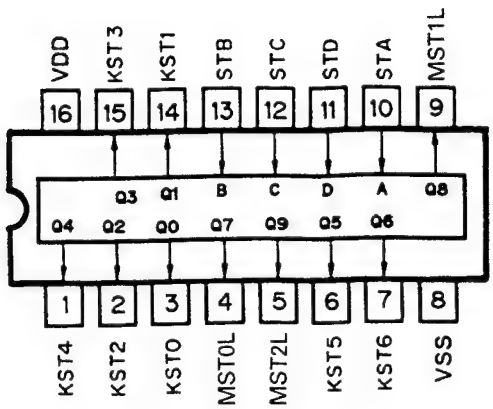
PDH004A



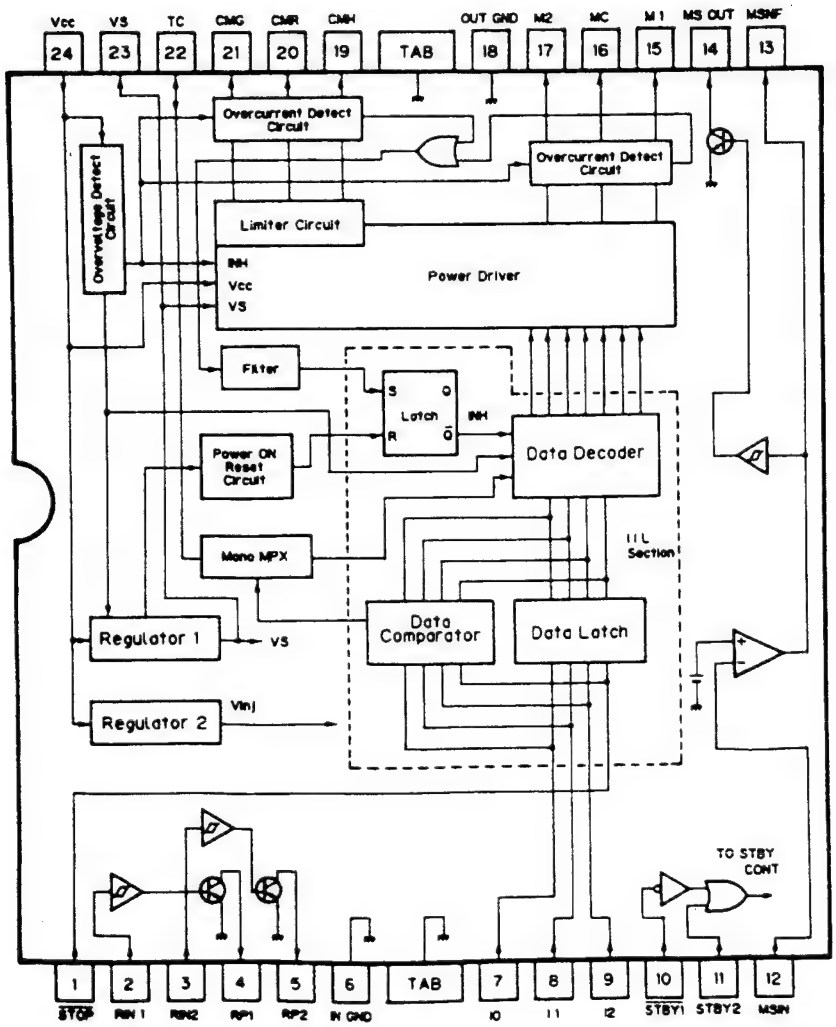
HA12163



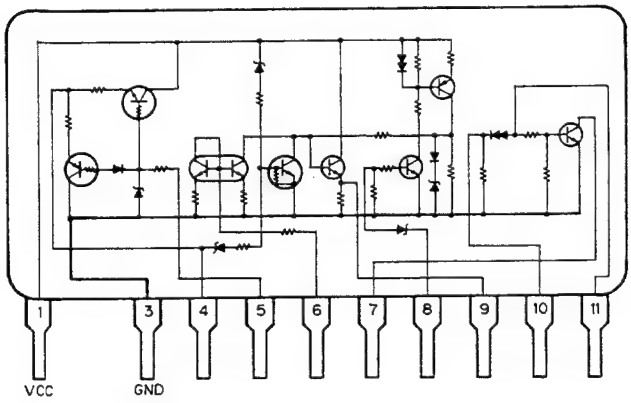
*MC14028BCP



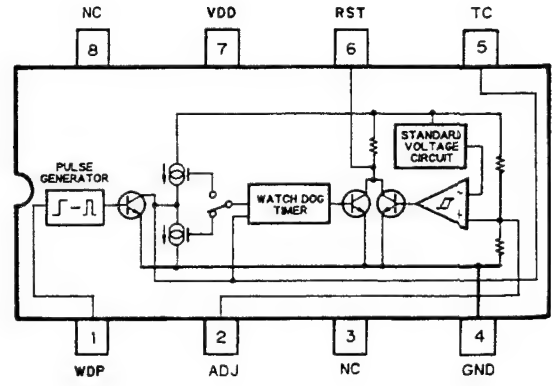
PA3028A



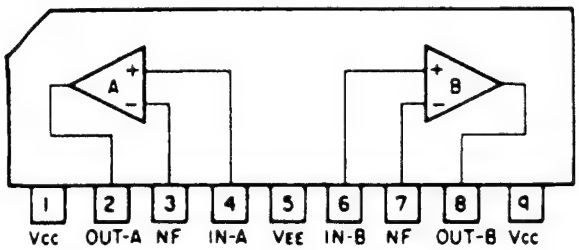
KHA198



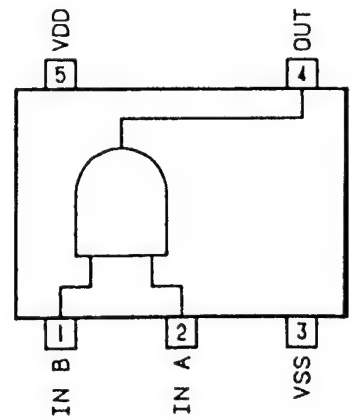
PA0054AD



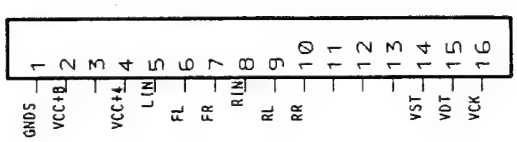
NJM2068SD



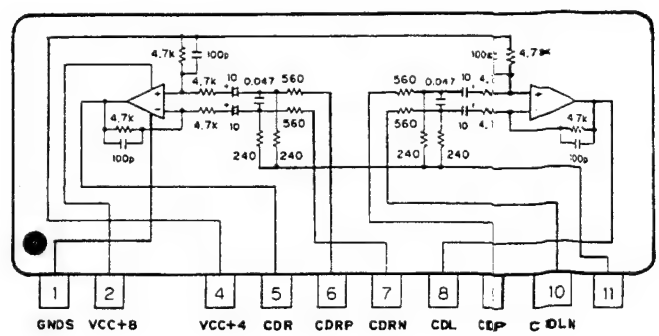
TC4S81F



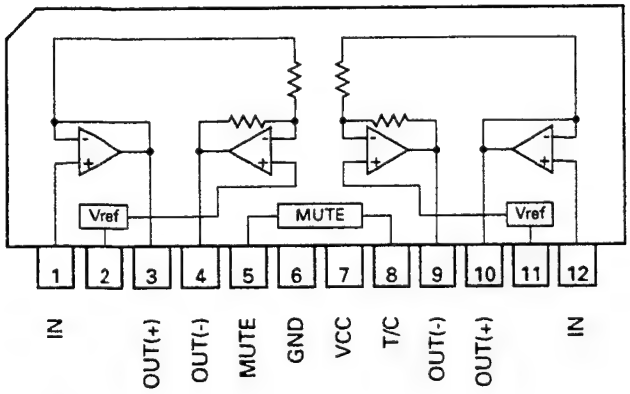
CWV1039



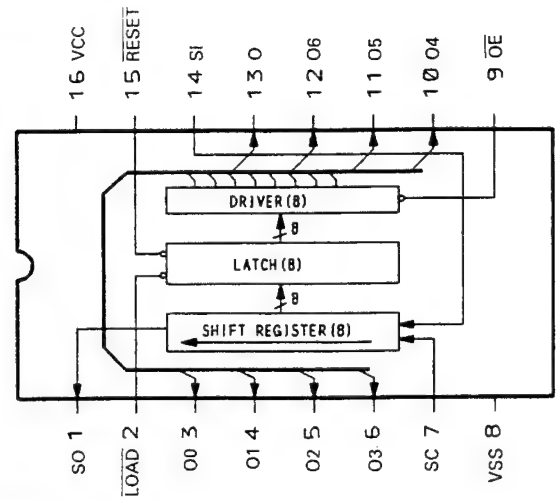
KHA232B



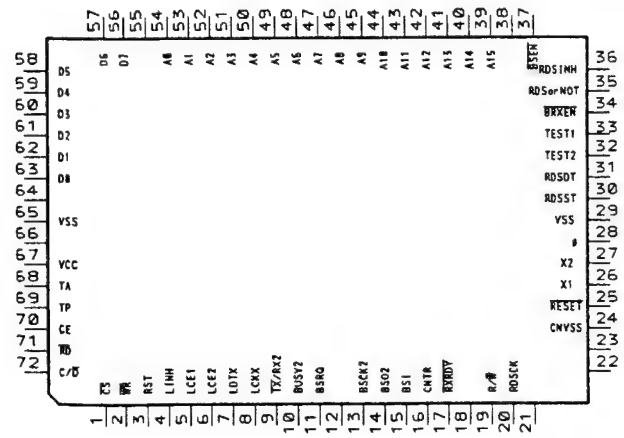
TA2026SN



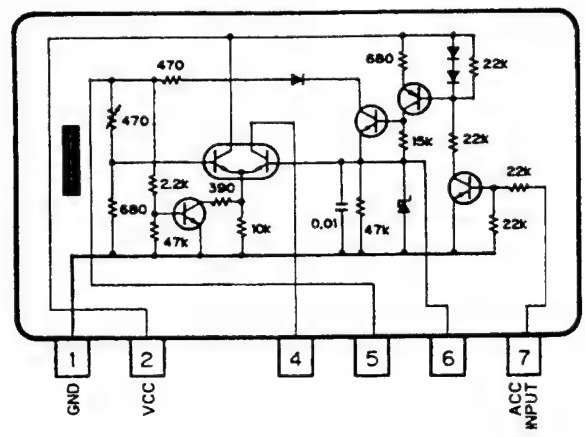
*MB88307P



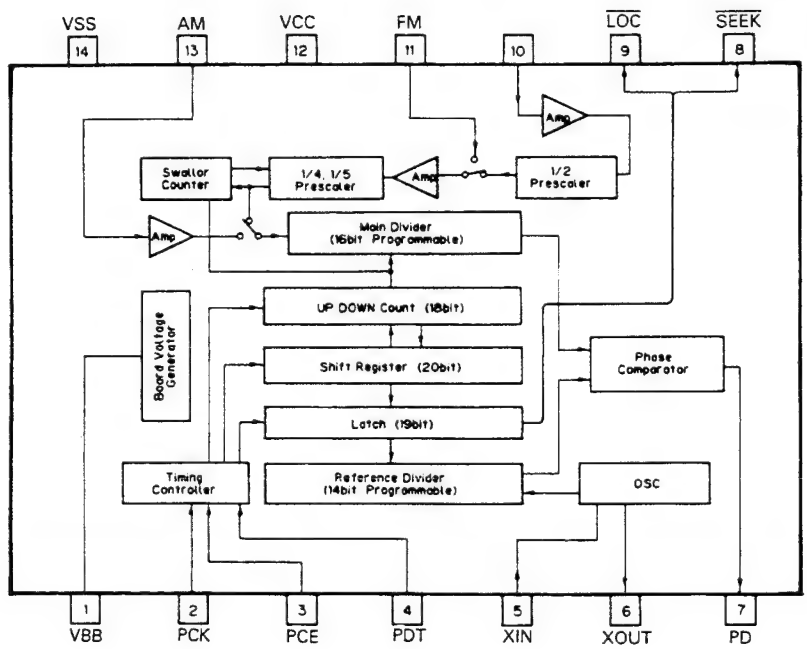
*PD5221A



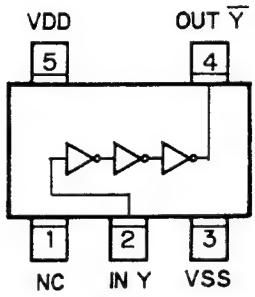
KHA241



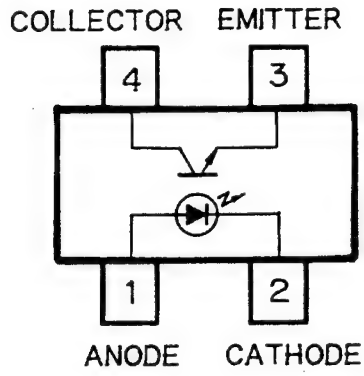
CX-7925B



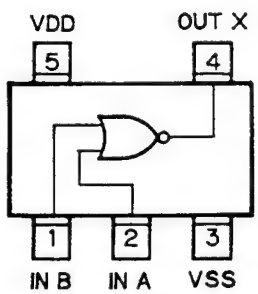
SC7S04F



ON3131



SC7S02F



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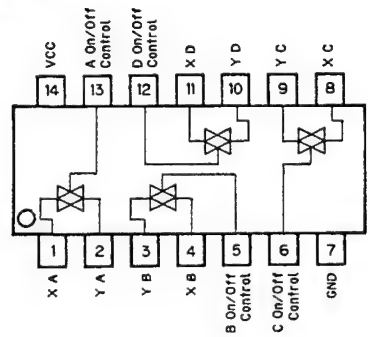
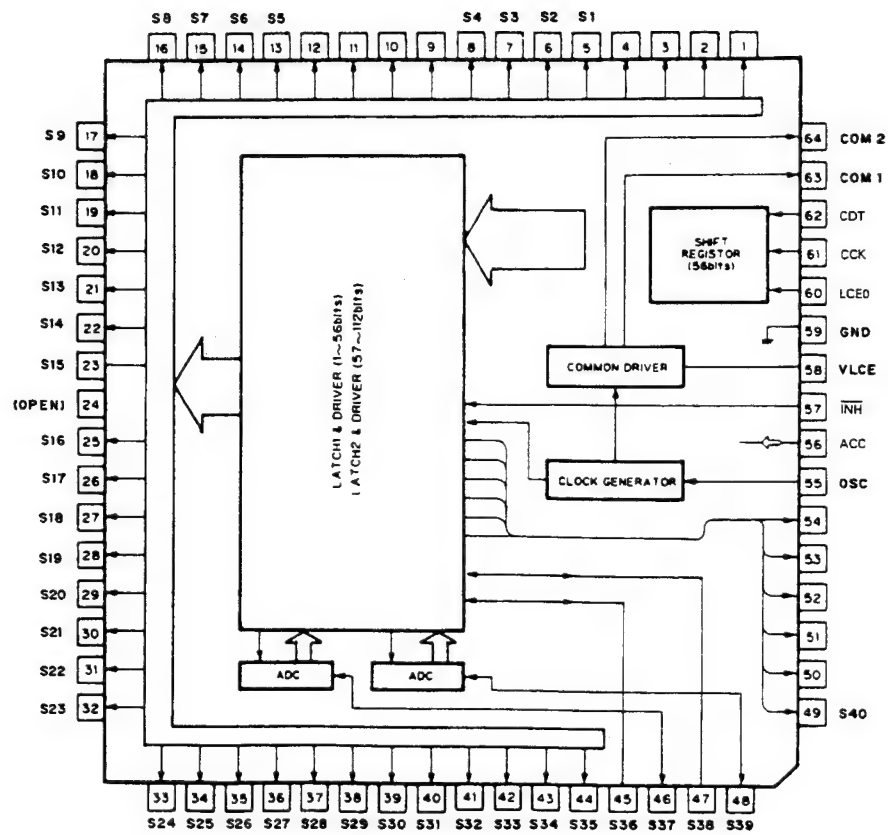
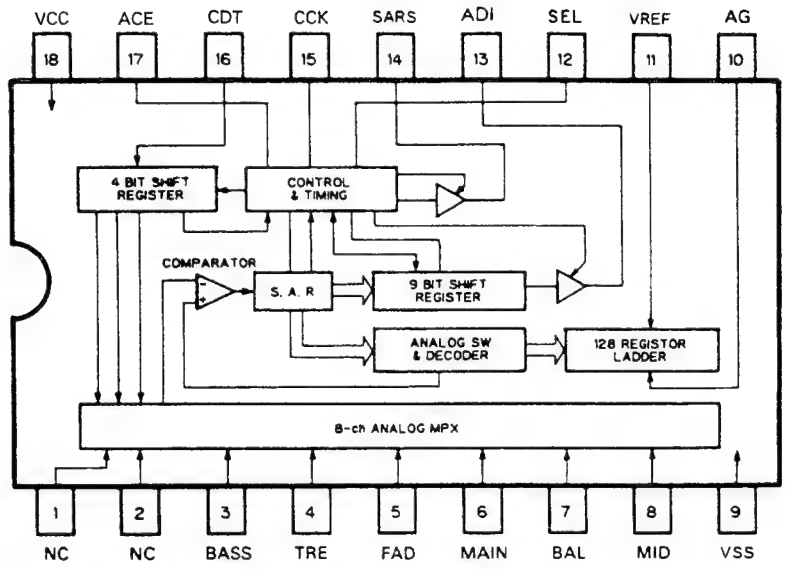


*LC7582ASP



*TC35095P



●Pin Functions (TC35095P)

Pin No.	Pin Name	I/O	Output Format	Function and Operation
1	N. C			Not used
2	N. C			Not used
3	BASS	Input		BASS level input terminal
4	TRE	Input		TREBLE level input terminal
5	FAD	Input		FADER level input terminal
6	MAIN	Input		VOLUME level input terminal
7	BAL	Input		BALANCE level input terminal
8	MID	Input		MIDDLE level input terminal
9	VSS			GND terminal
10	AG			Analog GND terminal
11	VREF	Input		Reference voltage input pin
12	SEL	Input		Not used
13	DO	Output	C	Serial data output pin
14	SARS	Output	C	Status output pin
15	CCK	Input		Serial clock input pin
16	CDT	Input		Data input pin
17	ACE	Input		Chip enable input pin
18	VCC			Device power supply terminal

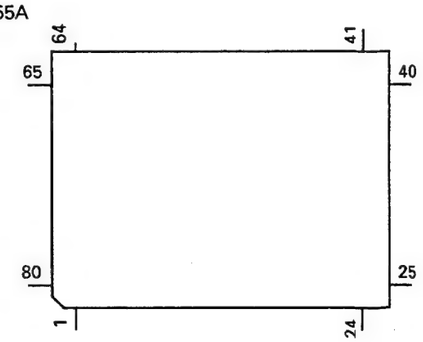
● **Pin Functions (PD4455A)**

Pin No.	Pin Name	I/O	Output Format	Function and Operation
1	POWSW	I		Power switch input
2	VREF	I		A/D reference voltage input
3	VDD			Power supply
4	VPP			Connect to GND
5	ACE	O	C	Chip enable output for A/D converter
6	ECE	O	C	Chip enable output for EEPROM
7	PCE	O	C	Chip enable output for PLL IC
8	RENL	O	C	Enable output for RDS IC
9	INHL	O	C	Inhibit output for LCD driver
10	POUT	O	C	Watch dog timer data output
11	MUTE	O	C	System mute output
12	TAOUT	O	C	Traffic announcement interruption output
13	STD	O	C	Decoder control bit 3 output
14	STC	O	C	Decoder control bit 2 output
15	STB	O	C	Decoder control bit 1 output
16	STA	O	C	Decoder control bit 0 output
17	RDDTI	I		Serial data input for RDS IC
18	RDDTO	O	C	Serial data input for RDS IC
19	RDSCK	O	C	Serial clock for RDS IC
20	PEE	O	C	Beep tone output
21	STBYL	O	C	Cassette mechanism driver stand-by output
22	I2	O	C	Motor driver control output
23	I1	O	C	Motor driver control output
24	I0	O	C	Motor driver control output
25	CML	O	C	Cassette mechanism capstan motor control output
26	VCK	O	C	Clock output for electronic volume
27	VDT	O	C	Data output for electronic volume
28	VST	O	C	Strobe pulse output for electronic volume
29	MD0	I		Cassette mechanism strobe input 0
30	MD1	I		Cassette mechsnism strobe input 1
31	MD2	I		Cassette mechanism strobe input 2
32	MD3	I		Cassette mechanism strobe input 3
33	VSS			GND
34	NRL	O	NH	Dolby NR ON/OFF select output
35	METL	O	NH	METAL ON/OFF output
36	FRL	O	NH	Head forward/reverse select output
37	DOLCL	O	NH	Not used
38	PCK	O	C	Serial clock output for PLL IC
39	PDT	O	C	Data output for PLL IC
40	BRSTL	O	C	P-BUS reset output
41	BRXEN	I/O	C	Reception enable input/output
42	CCK	O	C	Clock output for external IC
43	CDT	O	C	Data output for external IC
44	EXCEL	O	C	Chip enable output for extension I/O IC
45	EXLDL	O	C	Load output for extension I/O IC
46	IFCNT	I		IF signal input
47	ASEN	I		ACC power sense input
48	EJ	I		Eject signal input
49	BSEN	I		Back up power sense input
50	RDSRDY	I		Ready input for RDS IC
51	BDT	I/O		P-BUS serial data input/output
52	BCK	O		P-BUS serial clock output
53	MSL	I		Cassette mechanism MS sense input
54	GND			GND
55,56	XT1,XT2			Not used

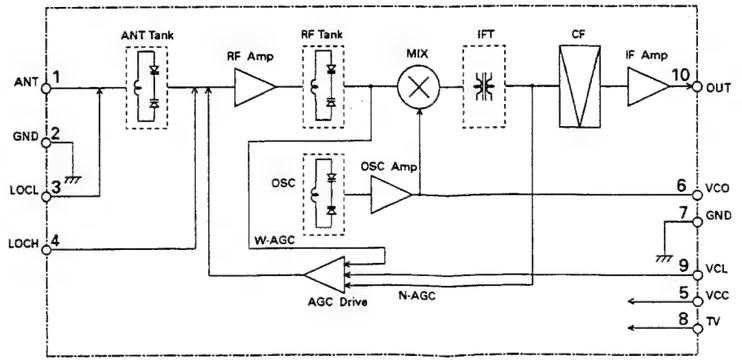
Pin No.	Pin Name	I/O	Output Format	Function and Operation
57	IC			Connect to GND
58	X1			Crystal oscillator connection pin
59	X2			Crystal oscillator connection pin
60	RST			Reset
61	LCE0L	O	NH	Chip enable output for LCD driver
62	LCE1L	O	NH	Chip enable output for LCD driver
63	LCE2L	O	NH	Chip enable output for LCD driver
64	TPPOW	O	NH	Tape +B ON/OFF output
65	SYSL	O	NH	System power control output
66	PLAYL	O	NH	Tape MS filter select output
67	ANTLED	O	NH	Not used
68	VCPOW	O	NH	Reference voltage switch output
69–72	KD3-KD0	I		Key data input
73	AGND			A/D converter GND
74	BRQ	I		P-BUS serial pole request input
75	ADIN	I		A/D convertor,EEPROM data input
76	NESL	I		Cassette mechanism forward end sense input
77	RESL	I		Cassette mechanism reverse end sense input
78	STL	I		FM stereo input
79	SL	I		Signal level for tuner
80	SD	I		SD input

Output Format	Meaning
C	CMOS output
NH	High resistivity N channel open drain

*PD4455A



● **FM FRONT END (CWB1070)**



● **LCD(CAW1201)**

SEGMENT

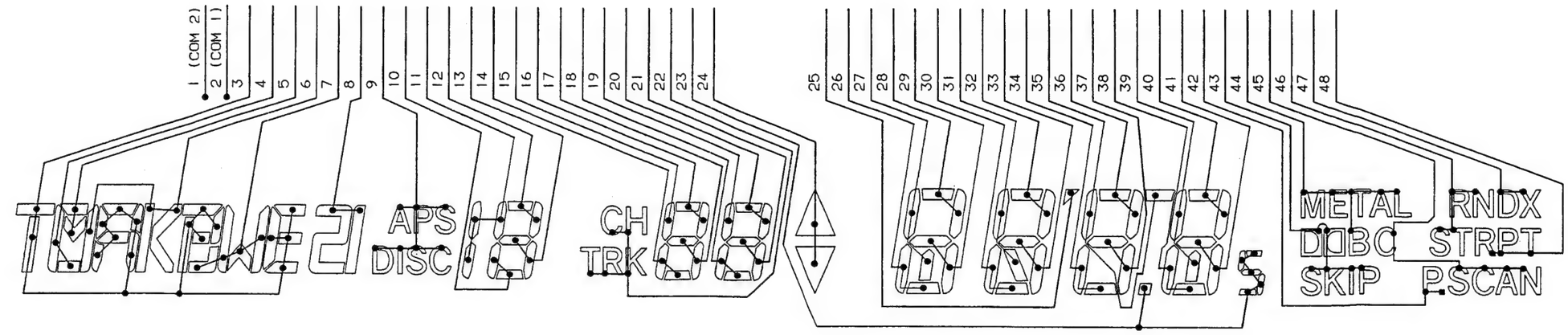


Fig. 40

COMMON

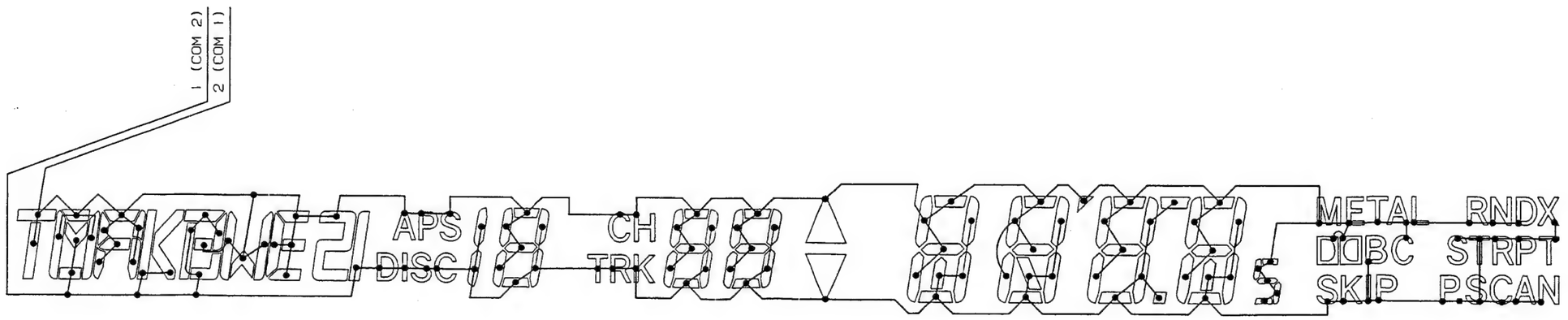
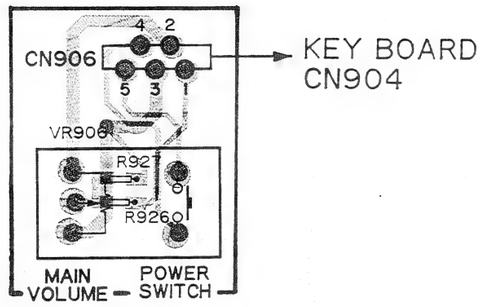


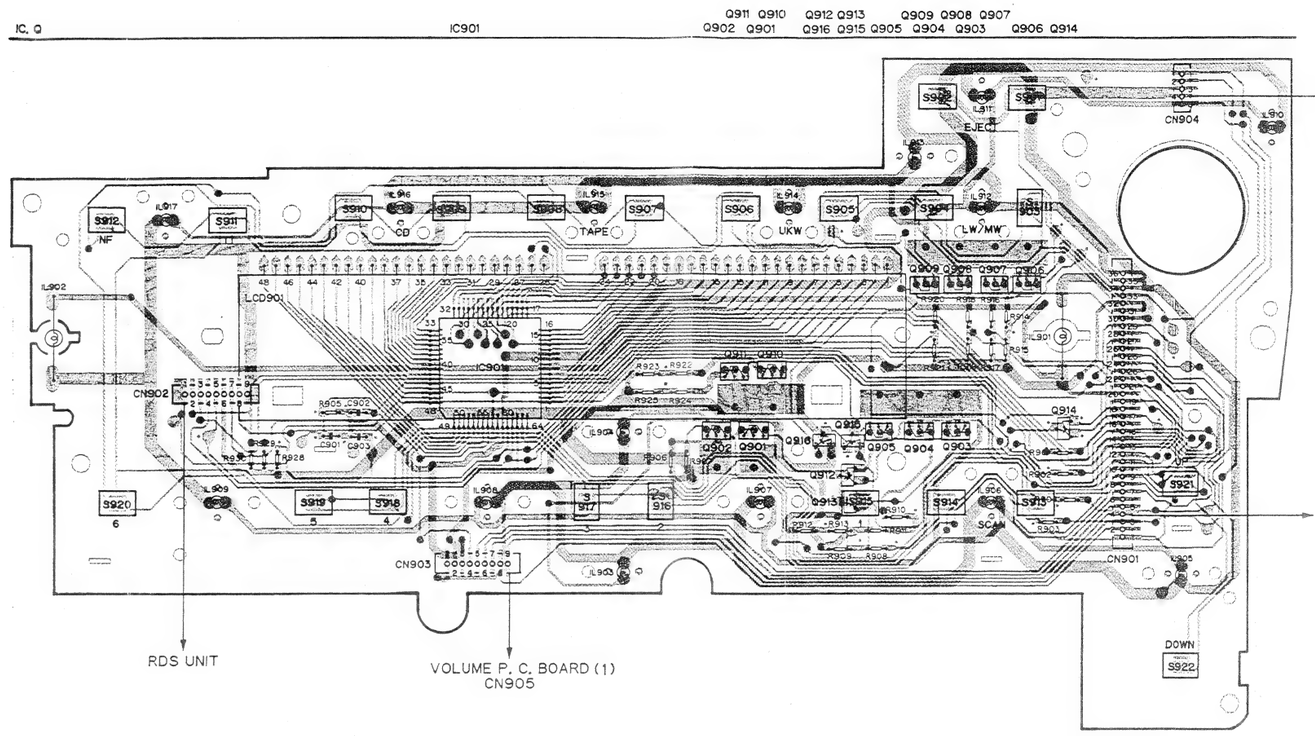
Fig. 41

7.CONNECTION DIARAM

VOLUME P.C. BOARD (2)

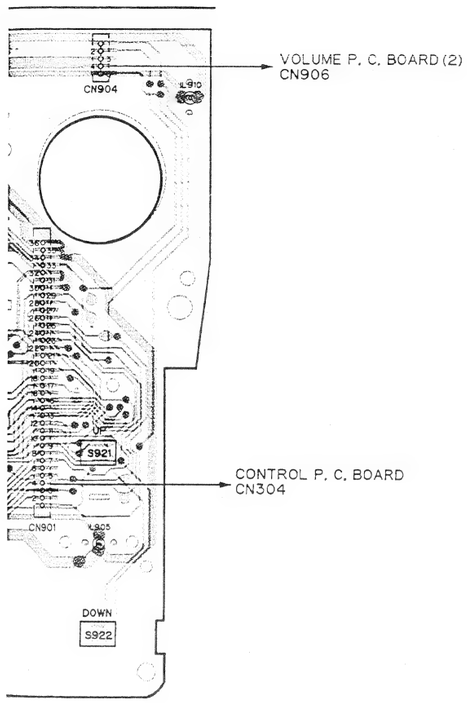


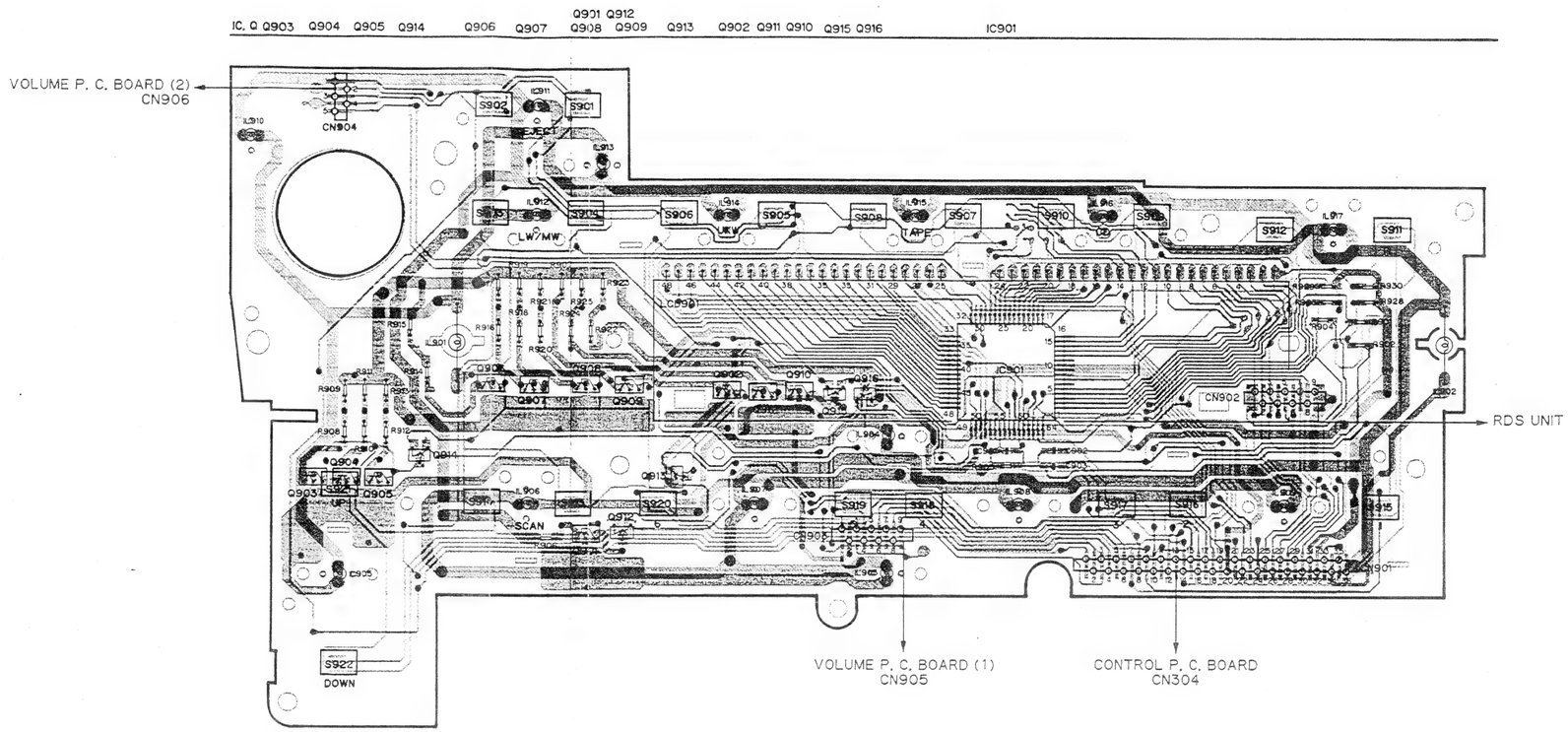
KEY BOARD (KEX-M9036ZT)



VOLUME P.C. BOARD (1)

KEY BOARD (KEX-M9136ZT/EW)





POWER SUPPLY P.C. BOARD

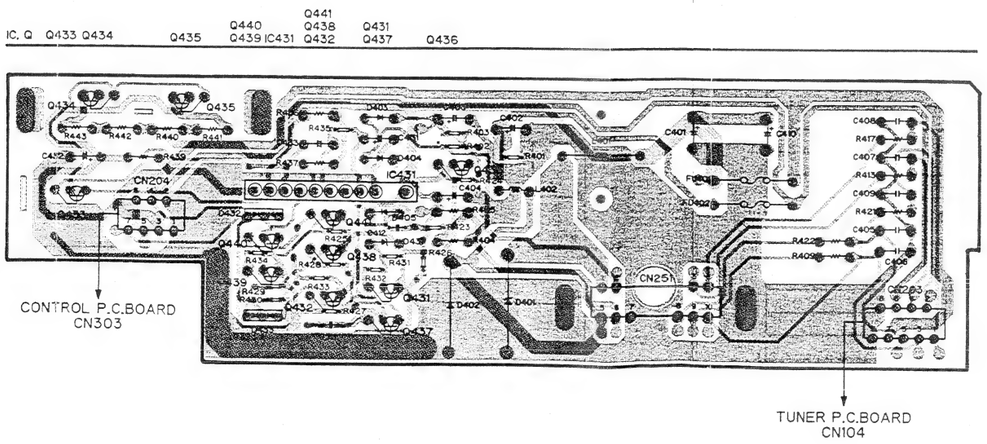


Fig. 42

9.TUNER P.C. BOARD

FM:-23dBs
(400Hz, 30%)

FM MPX BUFFER

TUNER MUTE

Q103:DTC343TS

Q105:DTC343TS

Q104 DTC343TS

Q106:DTC343TS

AM BUFFER

VR21:VRTB6VS222

AM LOOP FILTER

FM LOOP FILTER

QUADRUPLE ANALOG SWITCH

IC502 MC74HC4066N

LPF SWITCH

RDS DECODER

IC101 CWV1034

RDS CONTROL

MIX-AMP

IC452 NJM2068SD

ELECTRONIC VOLUME

IC453 CWV1039

CD:1.5dBs
TAPE:-8.5dBs
AM:-9.4dBs
FM:-10.6dBs

UNBAL-BAL

IC461 TA2026SN

IC462 TA2026SN

UNBAL-BAL

ANTENNA CONTROL

TAPE:-10dBs (315Hz,

CN102

CONTROL P.C.BOARD CN301

CONTROL P.C.BOARD CN302

39

40

MIX-AMP

IC452 NJM2068SD

ELECTRONIC VOLUME

IC453 CWV1039

CD:5.5dBs
TAPE:-4.3dBs
AM:-5.4dBs
FM:-6.6dBs

CN151

CD:1.5dBs
TAPE:-8.5dBs
AM:-9.4dBs
FM:-10.6dBs

UNBAL-BAL

IC461 TA2026SN

IC462 TA2026SN

UNBAL-BAL

BAL-UNBAL

IC451 KHA232B

CN152

CD:8.2dBs (1kHz, 0dB)

ANTENNA CONTROL

Q563 2SB1238

Q565 2SB1238

Q564 XDC114ES

Q566 XDC114ES

Q561 2SB1238

Q567 2SB1238

Q562 XDC114ES

Q568 XDC114ES

Q581 2SB1238

Q582 DTC143ES

Q555 2SB1243

Q556 XDC114ES

Q593 2SA1158

Q594 XDC114ES

Q752 2SC2458

Q591 2SB1238

Q592 XDC114ES

Q751 2SB942

1/2VCC

8.8V

ACC8V REGURATOR

IC751 KHA241

TAPE:-10dBs (315Hz, 0dB)

CN102

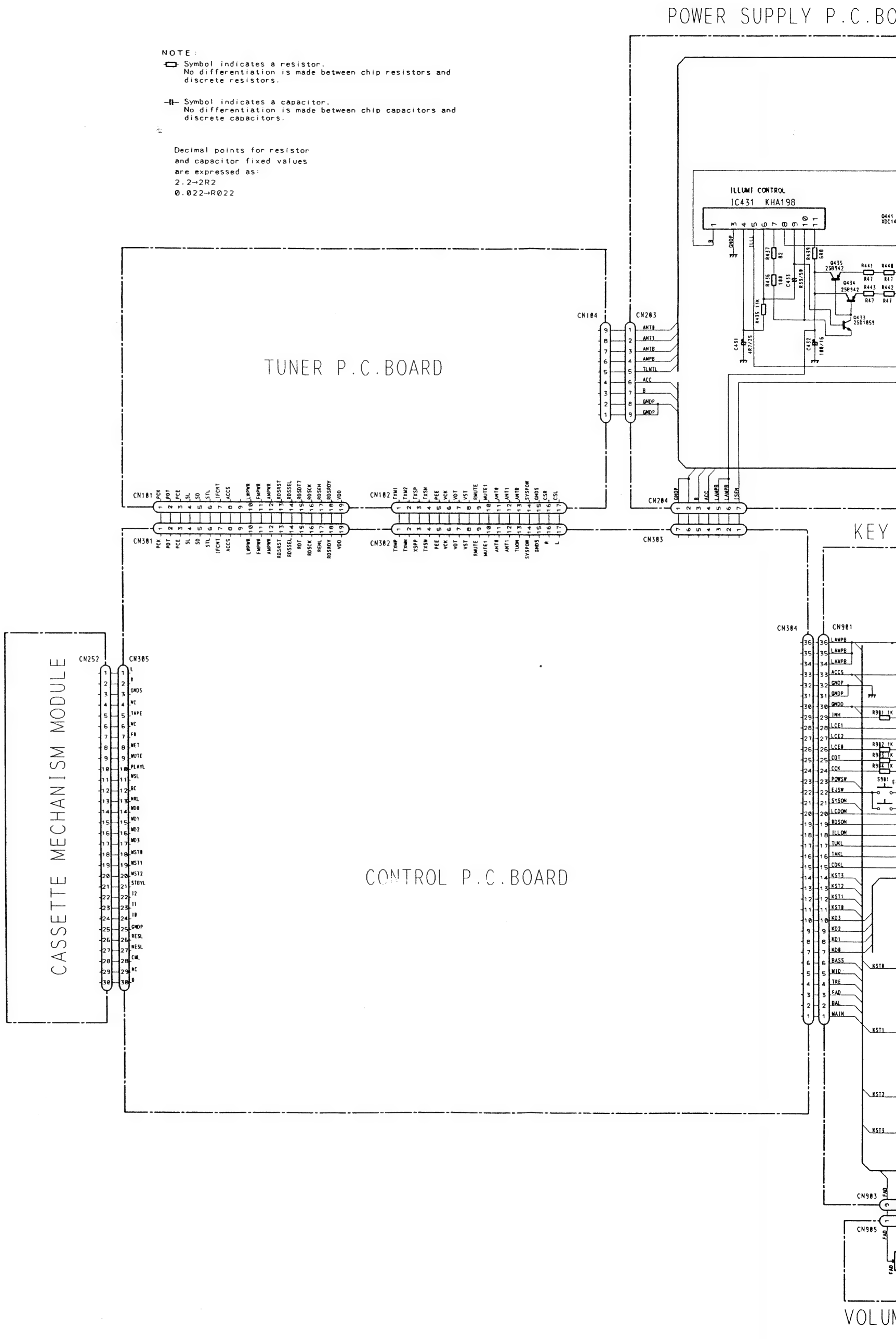
CONTROL P.C.BOARD CN302

CN104

POWER SUPPLY
P.C.BOARD CN203

Fig. 44

8.SCHEMATIC CIRCUIT DIAGRAM



ndicates a resistor.
rentiation is made between chip resistors and
resistors.

ndicates a capacitor.
rentiation is made between chip capacitors and
capacitors.

ints for resistor
tor fixed values
sed as:

22

POWER SUPPLY P.C.BOARD

TUNER P.C.BOARD

KEY BOARD

CONTROL P.C.BOARD

VOLUME P.C.BOARD (1)

VOLUME P.C.BOARD (2)

TUNER AUDIO CONTROL UNIT
POWER SUPPLY P.C.BOARD
TUNER P.C.BOARD
CONTROL P.C.BOARD

KEY BOARD UNIT
KEY BOARD
VOLUME P.C.BOARD (1)
VOLUME P.C.BOARD (2)

RDS UNIT
(CAY1011)

CN902

A:LCD BACK LIGHT 80mAX2
B:CD FUNC 60mAX1
C:CS FUNC 60mAX1
D:TU FUNC 60mAX5
E:CS DOOR.CSEJ.LW/MW DSS
UKW DSS.CS DSS.CD DSS
TI/NF.VOL RING 60mAX8

LCD901
CAW1201

IC901
LC7582ASP
LCD DRIVER

CN251

CN984

CN986

FILTER

ARD

BOARD

E P.C.BOARD (1) VOLUME P.C.BOARD (2)

Fig. 43

TUNER P.C. BOARD

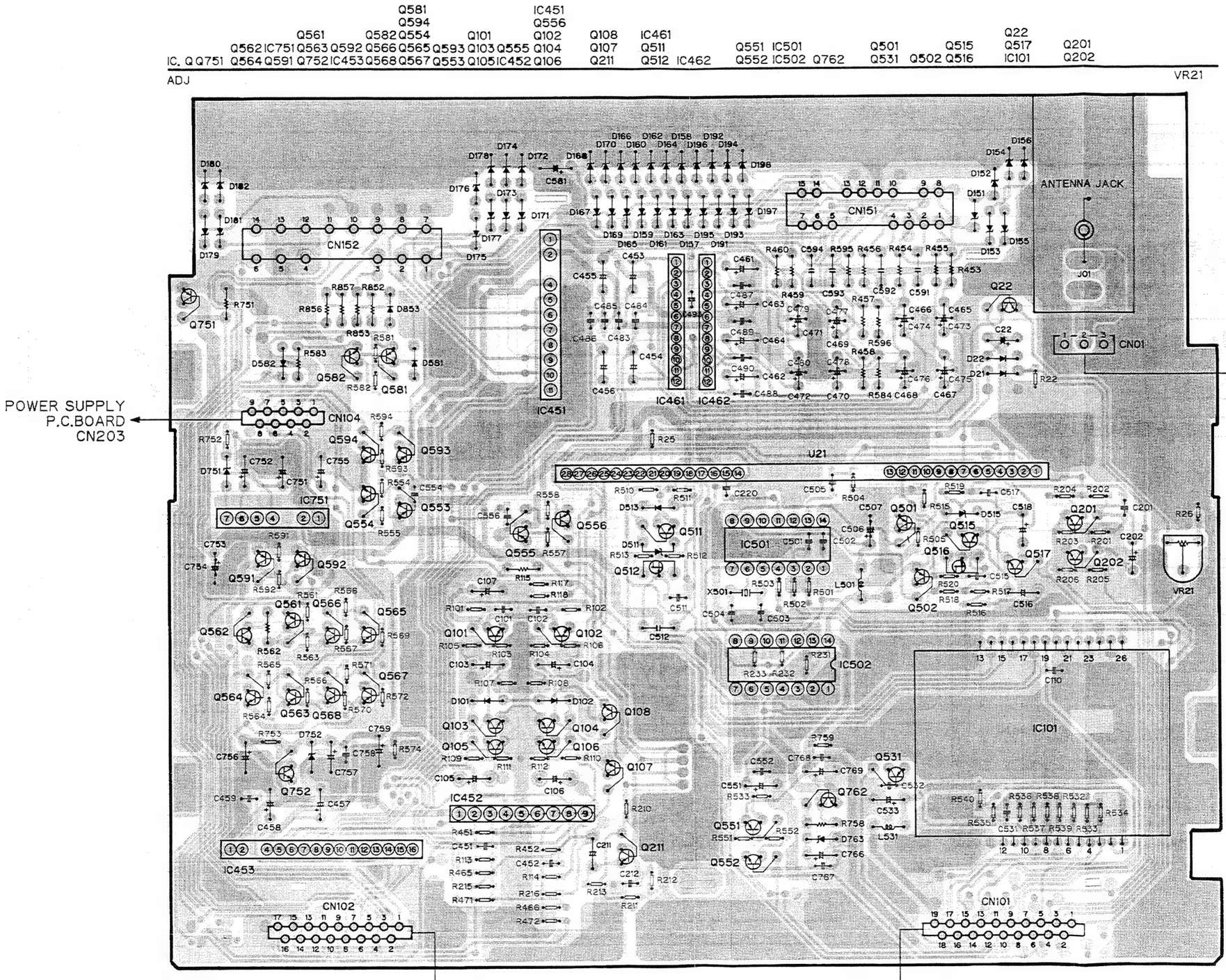


Fig. 45

10.CONTROL P.C. BOARD

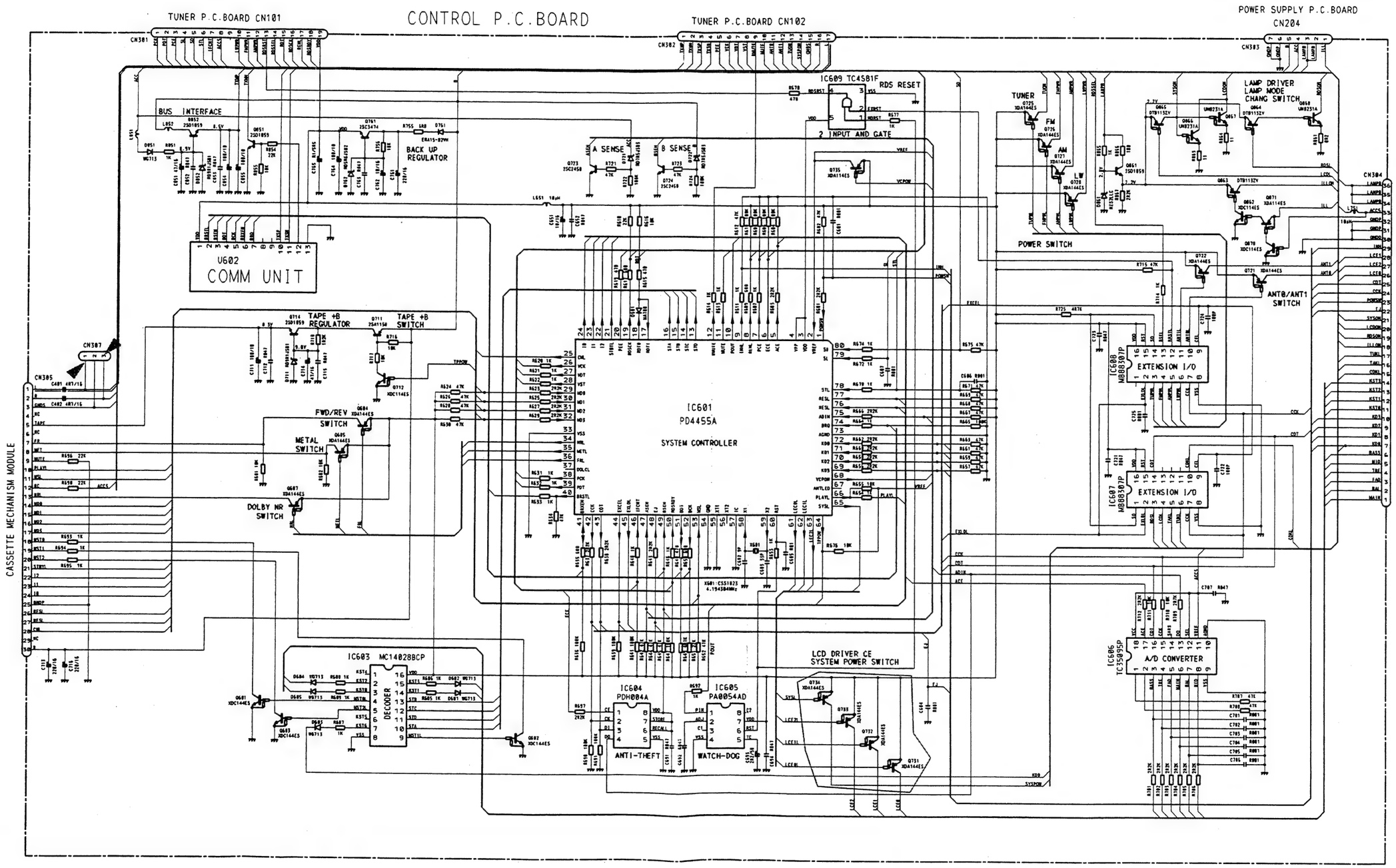


Fig. 46

CONTROL P.C. BOARD

IC, Q Q711 Q682 Q712 Q681 Q683 IC603 Q685 Q687 Q714 Q684 IC604 IC601 Q722 Q721 IC605 Q725 Q731 Q726 IC609 Q732 Q723 Q724 IC608 Q733 Q735 Q727 Q734 Q728 Q852 IC607 IC606 Q851 Q761 Q868 Q870 Q864 Q871 Q867 Q862 Q866 Q863 Q865 Q861

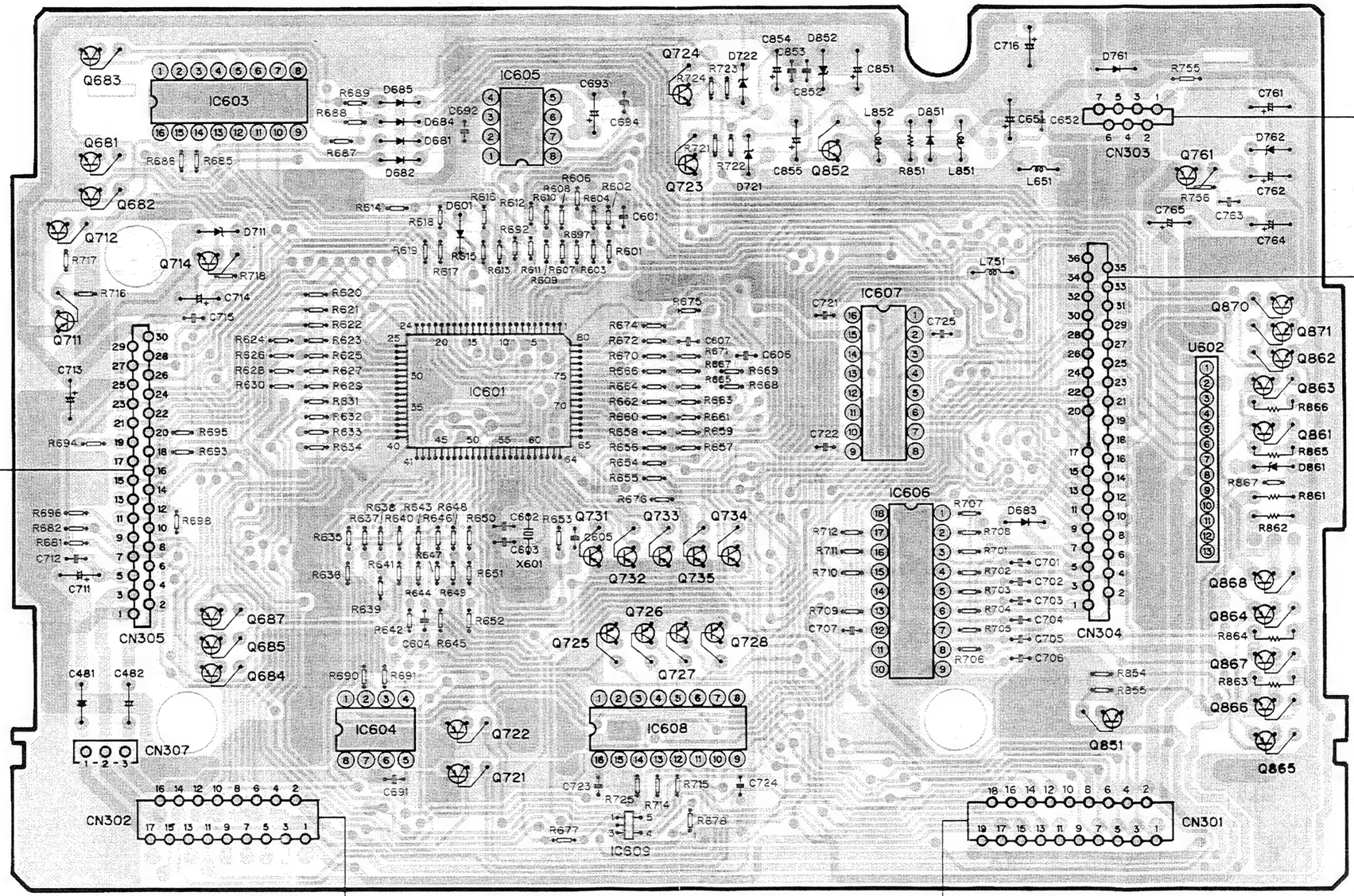


Fig. 47

11.FM/AM UNIT

FM/AM UNIT

NOTE :

Symbol indicates a resistor.
No differentiation is made between chip resistors and discrete resistors.

Symbol indicates a capacitor.
No differentiation is made between chip capacitors and discrete capacitors.

Decimal points for resistor and capacitor fixed values are expressed as:
2.2→2R2
0.022→R022

TUNER P.C.BOARD

TUNER P.C.BOARD
U21 2-12PIN

TUNER P.C.BOARD
U21 15-27PIN

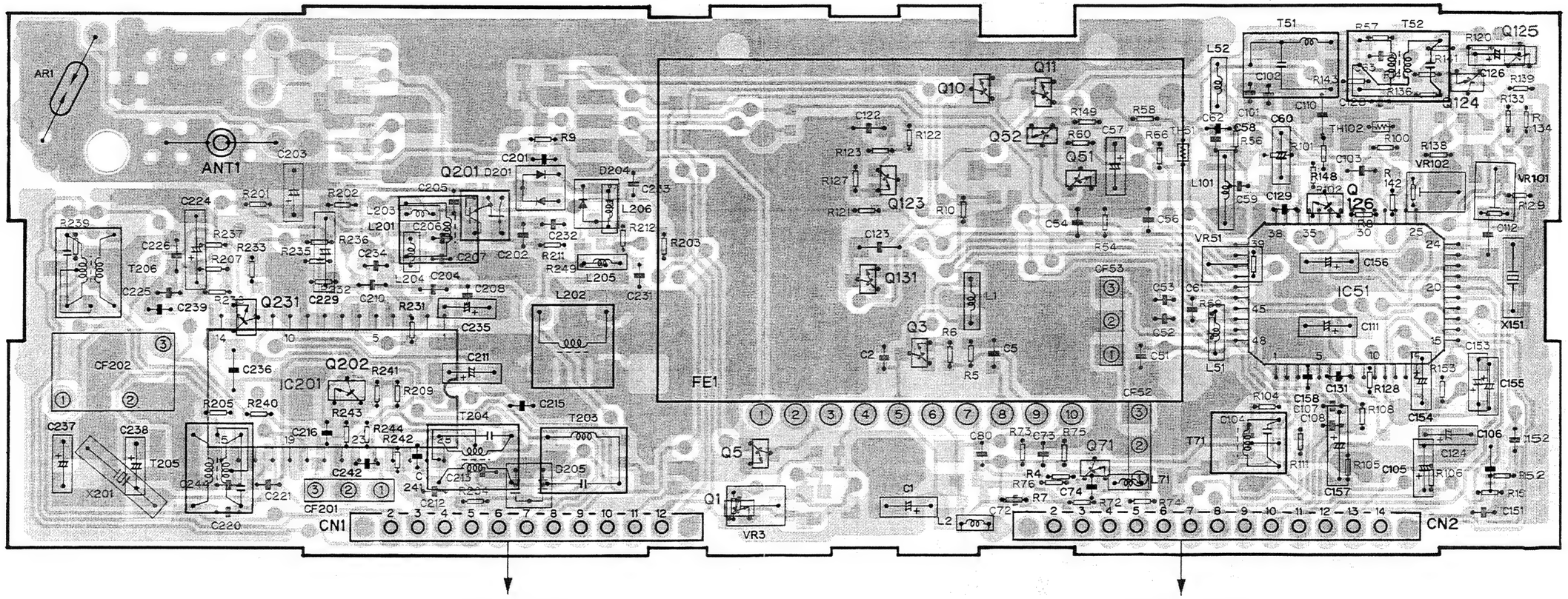
FM FRONT END

IC201 PAF001A AM TUNER

IC51 PA4019A FM TUNER

Fig. 48

FM/AM UNIT



TUNER P.C. BOARD
U21

TUNER P.C. BOARD
U21

Fig. 49

12.CASSETTE MECHANISM MODULE

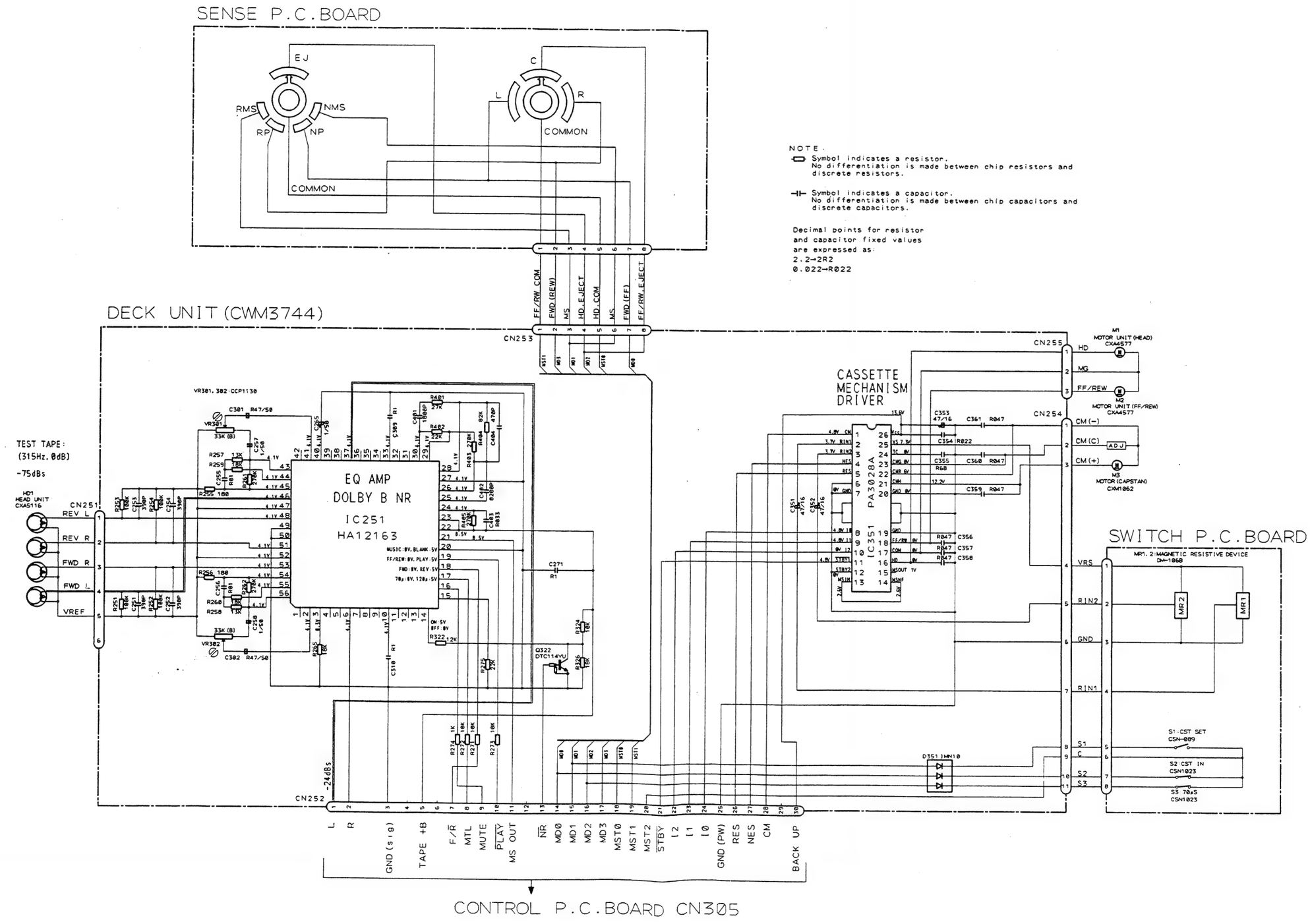
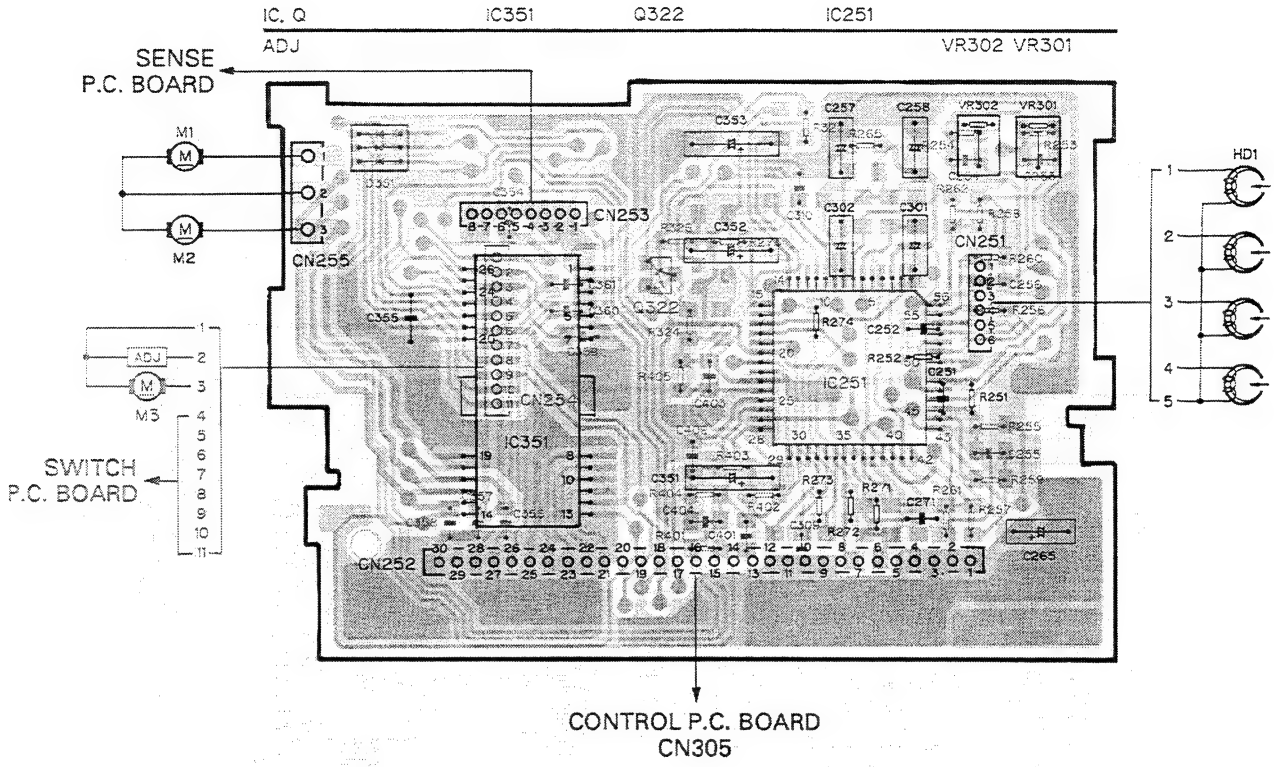
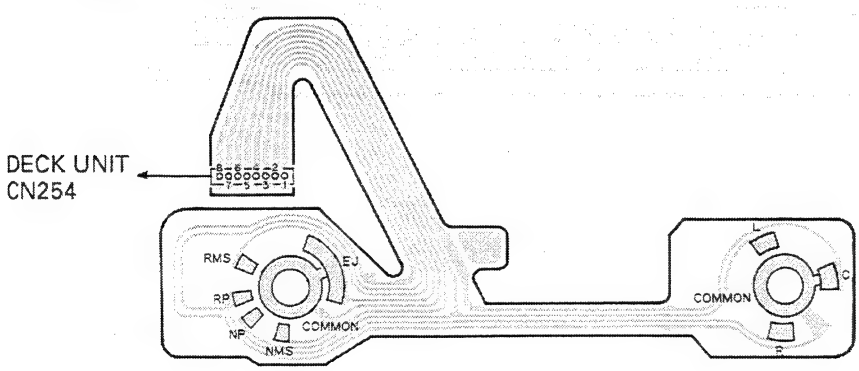


Fig.50

DECK UNIT



SWITCH P.C. BOARD



SENSE P.C. BOARD

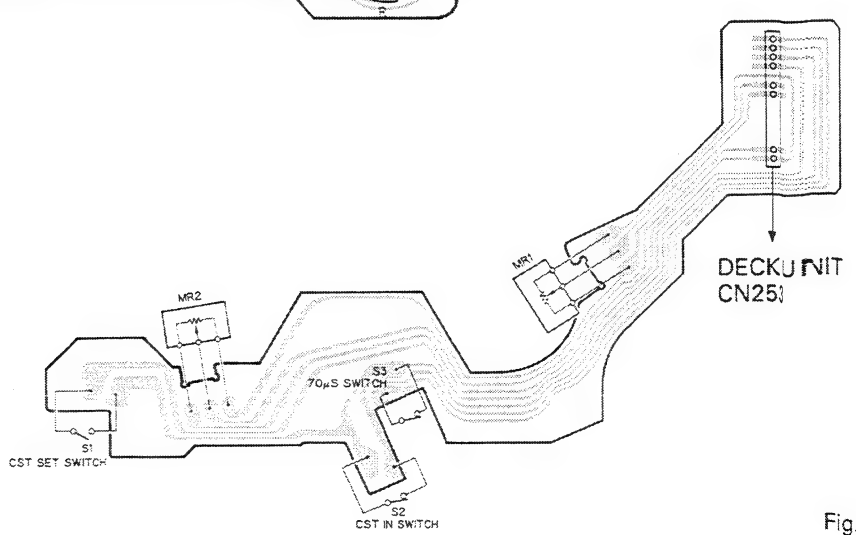
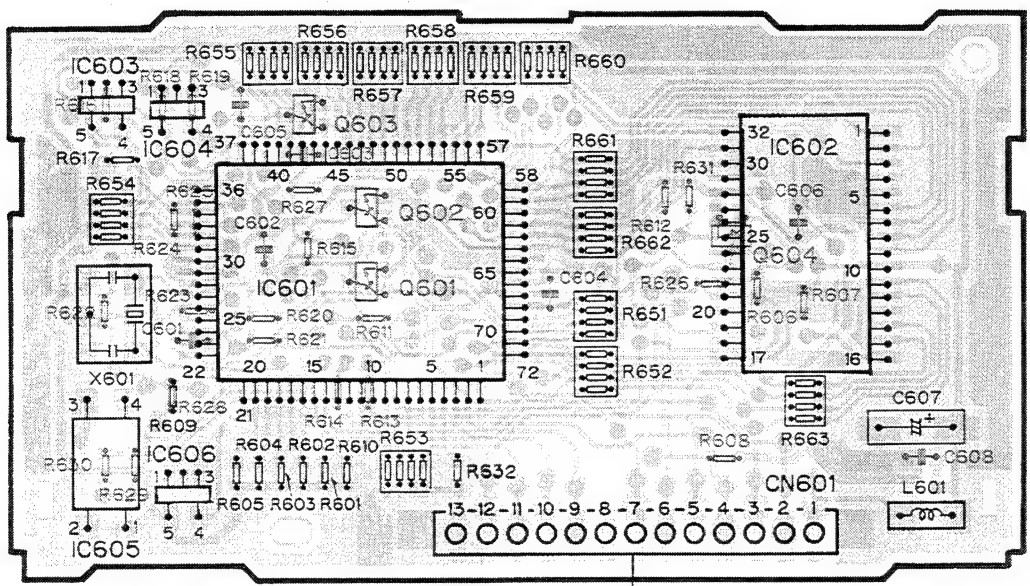


Fig. 51

13.COMM UNIT

COMM UNIT

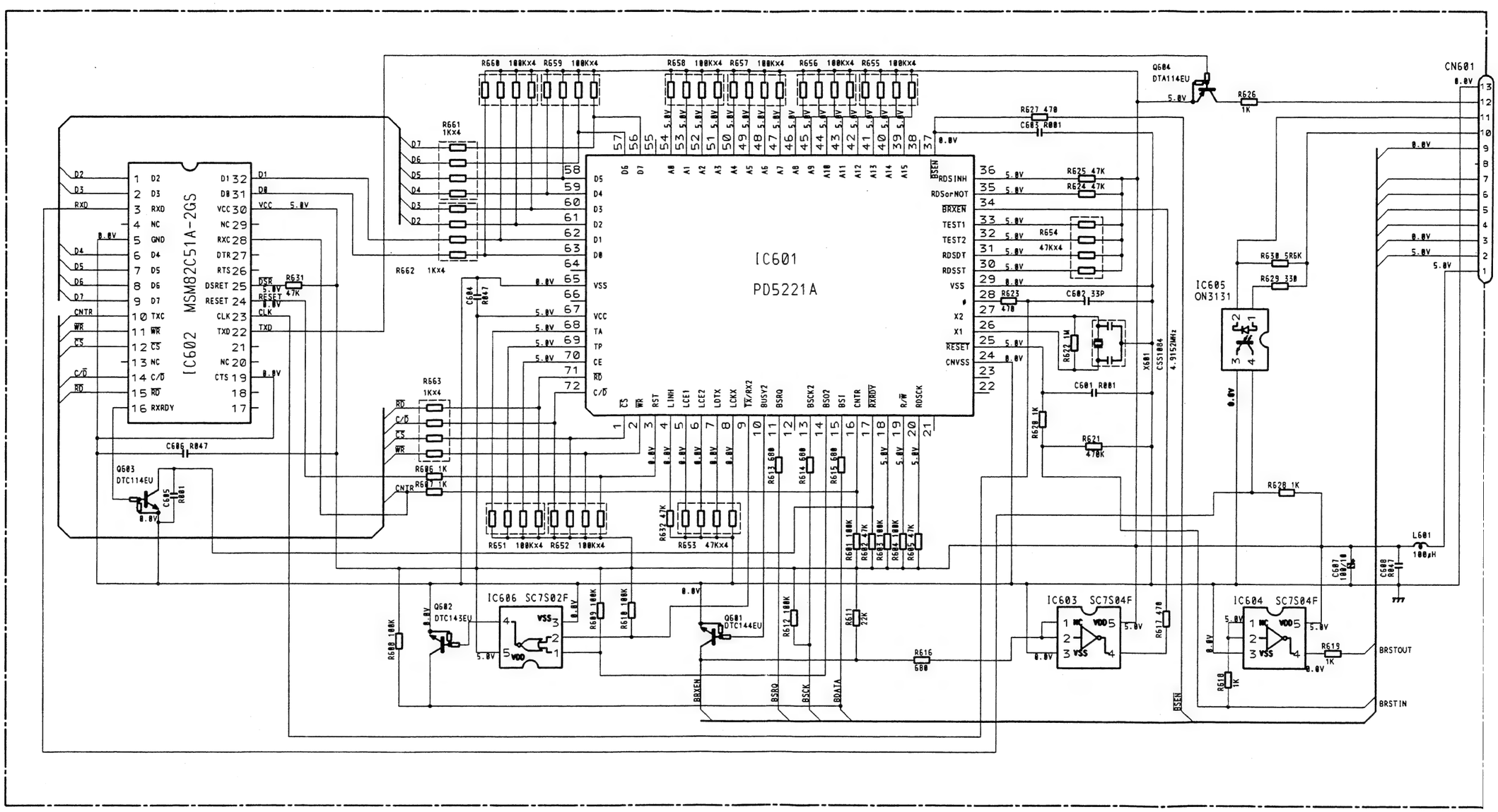
IC603 IC604 Q603 Q602
IC, Q IC605 IC606 IC601 Q601 Q604 IC602



CONTROL P.C. BOARD
U602

Fig. 52

COMM UNIT



NOTE :

Symbol indicates a resistor.
No differentiation is made between chip resistors and discrete resistors.

Symbol indicates a capacitor.
No differentiation is made between chip capacitors and discrete capacitors.

Decimal points for resistor and capacitor fixed values are expressed as:
2.2→2R2
0.022→R022

Fig. 53

14.CHASSIS EXPLODED VIEW (1)

●KEX-M9136ZT

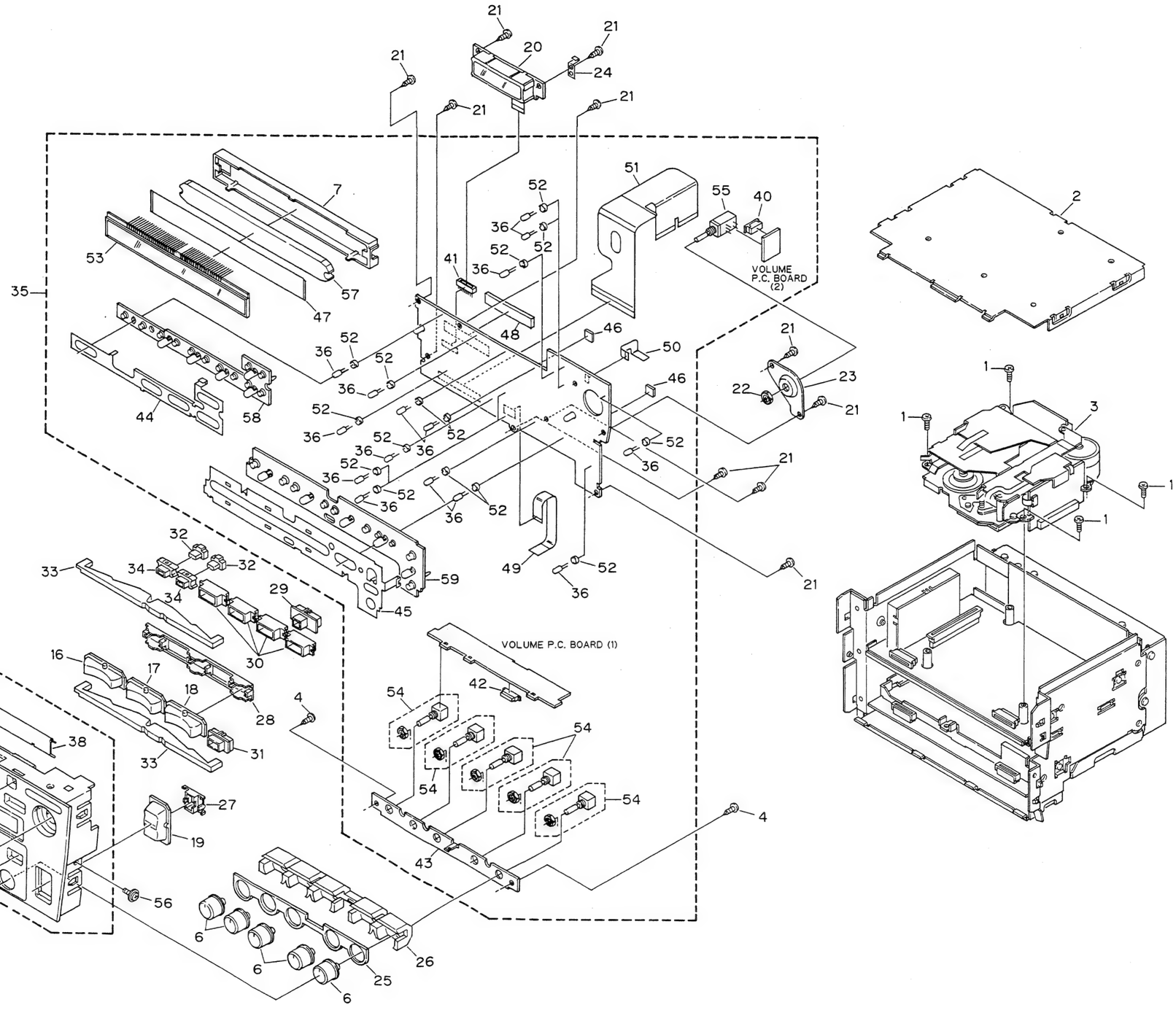


Fig. 54

NOTES:

- *Parts marked by " *" are generally unavailable because they are not in our Master Spare Parts List.*
- *Parts marked by " ⊙ " are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*

● Parts List(KEX-M9136ZT)

Mark No.	Description	Part No.
1	Screw	BMZ26P050FMC
2	Case	CNB1687
3	Cassette Mechanism Module	CXK1807
4	Screw	BMZ26P080FMC
5	Knob	CAA1314
6	Knob	CAA1336
7	Holder	CNV3421
8	Button	CAC3537
9	Button	CAC3538
10	Button	CAC3563
11	Button	CAC3564
12	Button	CAC3565
13	Button	CAC3678
14	Button	CAC3746
15	Button	CAC3747
16	Button	CAC3748
17	Button	CAC3749
18	Button	CAC3750
19	Button	CAC3751
20	RDS Unit	CAY1011
21	Screw	CBA1161
22	Nut	CBN1008
23	Holder	CNC4720
24	Conductor	CNC4744
25	Spacer	CNM2646
26	Lens	CNV2447
27	Holder	CNV2991
28	Holder	CNV2992
29	Holder	CNV3007
30	Holder	CNV3008
31	Holder	CNV3009
32	Lens	CNV3414
33	Lens	CNV3416
34	Holder	CNV3456
35	Key Board Unit	CWS1251
36	Lamp(IL903-917)	CEL1309
37	Grille Assy	CXA5418
38	Door	CAT1520
39	Spring	CBH1214
40	Connector(CN906)	CKS1782
41	Connector(CN902)	CKS1833
42	Connector(CN905)	CKS2012
43	Holder	CNC2929
44	Conductor	CNC4748
45	Conductor	CNC4749
46	Spacer	CNM2448
47	Plate	CNM2530
48	Cushion	CNM2856
49	P.C.Board	CNP2396
50	P.C.Board	CNP2835
51	P.C.Board	CNP3466
52	Holder	CNV1906
53	LCD(LCD901)	CAW1201
54	Volume(VR901-905)	CCS1131
55	Volume(VR906)	CCS1106
56	Screw	PMS30P050FMC
57	Lens	CNV2833
58	Rubber	CNV3399
59	Rubber	CNV3400

● **Parts List (KEX-M9036ZT)**

Mark	No.	Description	Part No.
	1	Screw	BMZ26P050FMC
	2	Case	CNB1687
	3	Cassette Mechanism Module	CXK1807
	4	Screw	BPZ26P080FMC
	5	Knob	CAA1314
	6	Knob	CAA1336
	7	Holder	CNV3421
	8	Button	CAC3537
	9	Button	CAC3538
	10	Button	CAC3563
	11	Button	CAC3564
	12	Button	CAC3565
	13	Button	CAC3678
	14	Button	CAC3746
	15	Button	CAC3747
	16	Button	CAC3748
	17	Button	CAC3749
	18	Button	CAC3750
	19	Button	CAC3751
	20	RDS Unit	CAY1011
	21	Screw	CBA1161
	22	Nut	CBN1008
	23	Holder	CNC3996
	24	Conductor	CNC4744
	25	Spacer	CNM2646
	26	Lens	CNV2447
	27	Holder	CNV2991
	28	Holder	CNV2992
	29	Holder	CNV3007
	30	Holder	CNV3008
	31	Holder	CNV3009
	32	Lens	CNV3414
	33	Lens	CNV3416
	34	Holder	CNV3456
	35	Key Board Unit	CWS1250
	36	Lamp(IL903-917)	CEL1309
	37	Grille Assy	CXA5417
	38	Door	CAT1519
	39	Spring	CBH1214
	40	Connector(CN906)	CKS1782
	41	Connector(CN902)	CKS1833
	42	Connector(CN905)	CKS2012
	43	Holder	CNC2929
	44	Conductor	CNC4745
	45	Conductor	CNC4746
	46	Spacer	CNM2448
	47	Plate	CNM2530
	48	•••••	
	49	P.C.Board	CNP2396
	50	P.C.Board	CNP2835
	51	P.C.Board	CNP2824
	52	Holder	CNV1906
	53	LCD(LCD901)	CAW1201
	54	Volume(VR901-905)	CCS1131
	55	Volume(VR906)	CCS1106
	56	Screw	PMS30P050FMC
	57	Lens	CNV2833
	58	Rubber	CNV3397
	59	Rubber	CNV3398

●KEX-M9036ZT

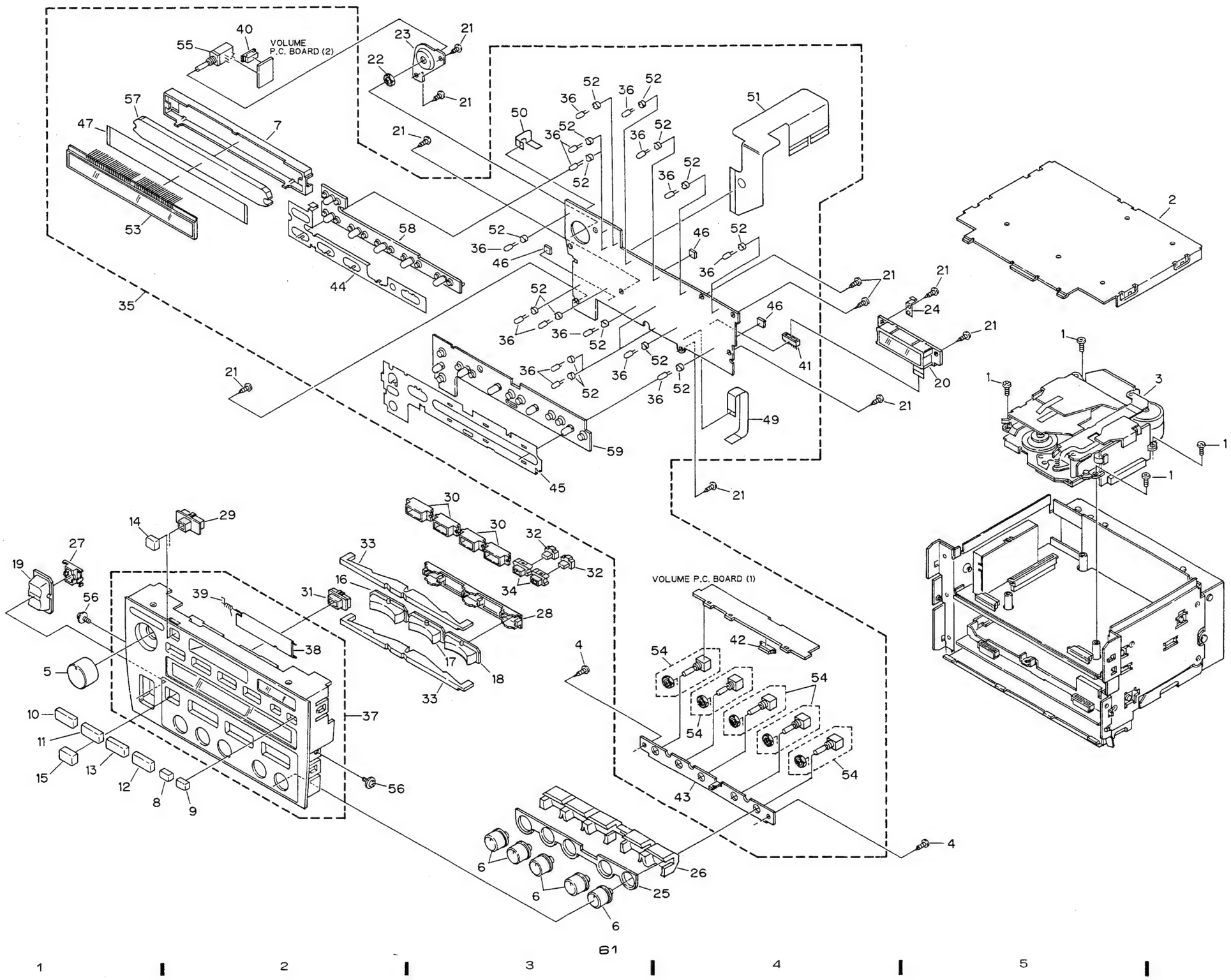


Fig. 55

15.CHASSIS EXPLODED VIEW (2)

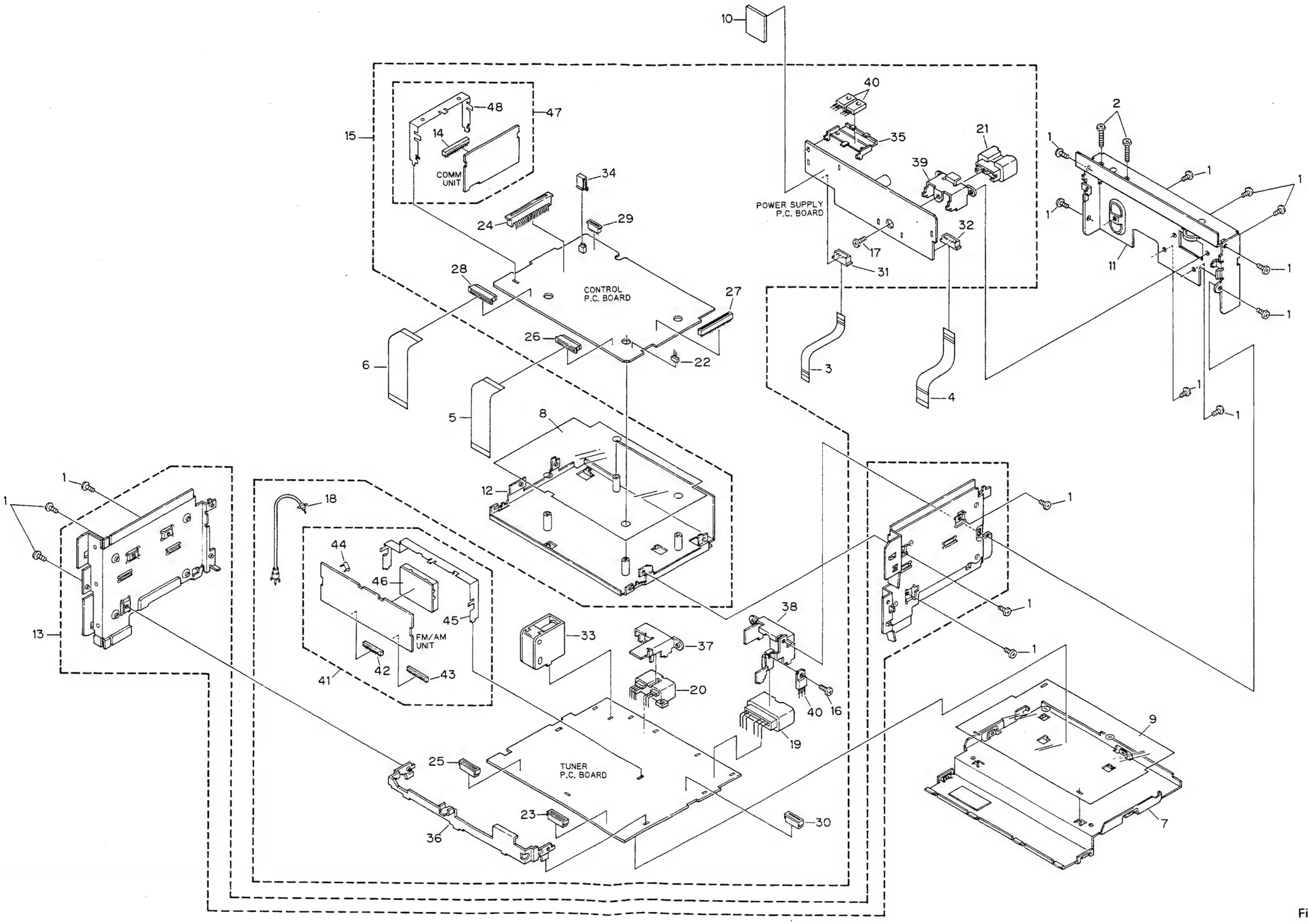


Fig. 56

● **Parts List**

Mark	No.	Description	Part No.
	1	Screw	BMZ30P060FMC
	2	Screw	BMZ30P140FMC
	3	Connector	CDE3873
	4	Connector	CDE3876
	5	Connector	CDE3913
	6	Connector	CDE3914
	7	Case(KEX-M9136ZT)	CNB1688
		Case(KEX-M9036ZT)	CNB1532
	8	Insulator	CNM3194
	9	Insulator	CNM3195
	10	Spacer	CNM3300
	11	Cover Assy	CXA4402
	12	Chassis Assy	CXA4403
	13	Side Plate Assy (KEX-M9136ZT)	CXA5686
		Side Plate Assy (KEX-M9036ZT)	CXA5684
*	14	Terminal(CN601)	CKF1026
	15	Tuner Audio Control Unit	CWM3411
	16	Screw	BMZ30P060FMC
	17	Screw	BRZ26P080S
	18	Antenna Cable	CDH1154
	19	Connector(CN152)	CKM1066
	20	Connector(CN151)	CKM1074
	21	Connector(CN251)	CKM1107
	22	Plug(CN307)	CKS-291
	23	Connector(CN102)	CKS1289
	24	Connector(CN304)	CKS1389
	25	Connector(CN101)	CKS1970
	26	Connector(CN302)	CKS2018
	27	Connector(CN305)	CKS2189
	28	Connector(CN301)	CKS2493
	29	Connector(CN303)	CKS2582
	30	Connector(CN104)	CKS2583
	31	Connector(CN204)	CKS2592
	32	Connector(CN203)	CKS2593
	33	Antenna Jack	CKX1041
	34	Holder	CNC2328
	35	Holder	CNC3136
	36	Holder	CNC3982
	37	Holder	CNC3983
	38	Holder	CNC3984
	39	Holder	CNC3985
	40	Transistor(Q434,435,751)	2SB942
⊙	41	FM/AM Unit	CWE1259
	42	Plug(11P)	CKS1619
	43	Plug(13P)	CKS1621
	44	Antenna Jack	CKX1010
	45	Holder	CNC3506
	46	FM Front End	CWB1070
⊙	47	COMM Unit	CWM3461
*	48	Holder	CNC3778

16. CASSETTE MECHANISM MODULE EXPLODED VIEW

● **Parts List**

Mark	No.	Description	Part No.
	1	Cassette Mechanism Unit	CXA5635
	2	Screw(M1.4×1.4)	HBA-147
	3	Spring	CBE1023
	4	Spring	CBH-867
	5	Spring	CBH-837
	6	Screw	CBA1243
	7	•••••	
	8	Arm	CNC2373
	9	Holder Unit	CXA4580
	10	Reel Assy	CXA4581
	11	Washer	CBF1022
	12	Collar	CNW-932
	13	Spring	CBH-827
	14	Reel Unit	CXA5076
	15	Spring	CBH-868
	16	Bracket Unit	CXA1481
	17	Screw	BMZ20P030FMC
	18	Screw(M1.7×3)	CBA-186
	19	Gear Unit	CXA4583
	20	Washer	CBF1026
	21	Gear	CNV3036
	22	Washer	CBF1023
	23	Spring	CBH-835
	24	Washer	CBF1025
	25	Pinch Roller Unit	CXA2609
	26	Spring	CBH1277
	27	Spring	CBH1197
	28	Washer	YE25FUC
	29	Arm	CNV1254
	30	Gear	CNV1616
	31	Collar	CLA1238
	32	Screw(M2×2.5)	HBA-175
	33	Switch(70μS,CST IN)	CSN1023
	34	Screw(M1.7×5.5)	CBA1025
	35	Switch(CST SET)	CSN-089
	36	P.C.Board	CNP2880
	37	Screw(M2×2.5)	CBA1037
	38	Magnetic Resistive Device	DM-106B
	39	Screw(M2×5)	CBA1054
	40	Gear	CNV1075
	41	Washer	CBF-088
	42	Arm Unit	CXD-389
	43	Spring	CBH-887
	44	Arm	CNG-618
	45	Spring	CBH-886
	46	Washer	CBG1003
	47	Washer	HBF-179
	48	Spring	CBH-830
	49	Chassis Unit	CXA4575
	50	Spring	CBL1050
	51	Washer	YE12FUC
	52	Gear	CNW-944
	53	Screw(M2×4)	CBA1106
	54	Flywheel	CNV1572
	55	Belt	CNT1055
	56	Insulator	CNM2592
	57	Screw(M2×6)	CBA1004
	58	Cover	CNC4106
	59	Screw	BMZ20P025FMC
	60	•••••	
	61	P.C.Board	CNP3332
	62	Arm	CNV1253
	63	Screw	PMS26P025FMC
	64	Spring	CBH1276
	65	Pinch Roller Unit	CXA2608
	66	Spring	CBH1196
	67	Lever	CNV3195
	68	Motor(Capstan)	CXM1062
	69	Spacer	CNC1651
	70	Screw	BMZ20P035FMC
	71	•••••	
	72	Head Unit	CXA5116
	73	Clamper	CNV3186
	74	Washer	CBF-135
	75	Gear	CNV1262
	76	Washer	YE15FUC
	77	Arm	CNH-004
	78	Holder Assy	CXA5016
	79	Clamper	CNV3039
	80	Screw	HBA-212
	81	Plate	CNC3632
	82	Screw(M1.7×3)	CBA1125
	83	Screw(M2×25)	CBA-165
	84	Guide	CNC4087
	85	Screw(M2×2.2)	HBA-174
	86	Bracket Unit	CXA4578
	87	Motor Unit(FF/REW,Head)	CXA4577
	88	Bracket Unit	CXA4576
	89	Belt	CNT1054
	90	Pulley	CNV3044
	91	Pulley	CNV3037
	92	P.C.Board	CNP2878
	93	Deck Unit	CWM3741
	94	Connector(CN253)	CKS2129
	95	Connector(CN254)	CKS2115
	96	Connector(CN251)	CKS2127
	97	Connector(CN252)	CKS2188
	98	Reel Unit	CXA5077
	99	Heat Sink	CNC4788

● **Cassette Mechanism Module(X-0R Mechanism)**

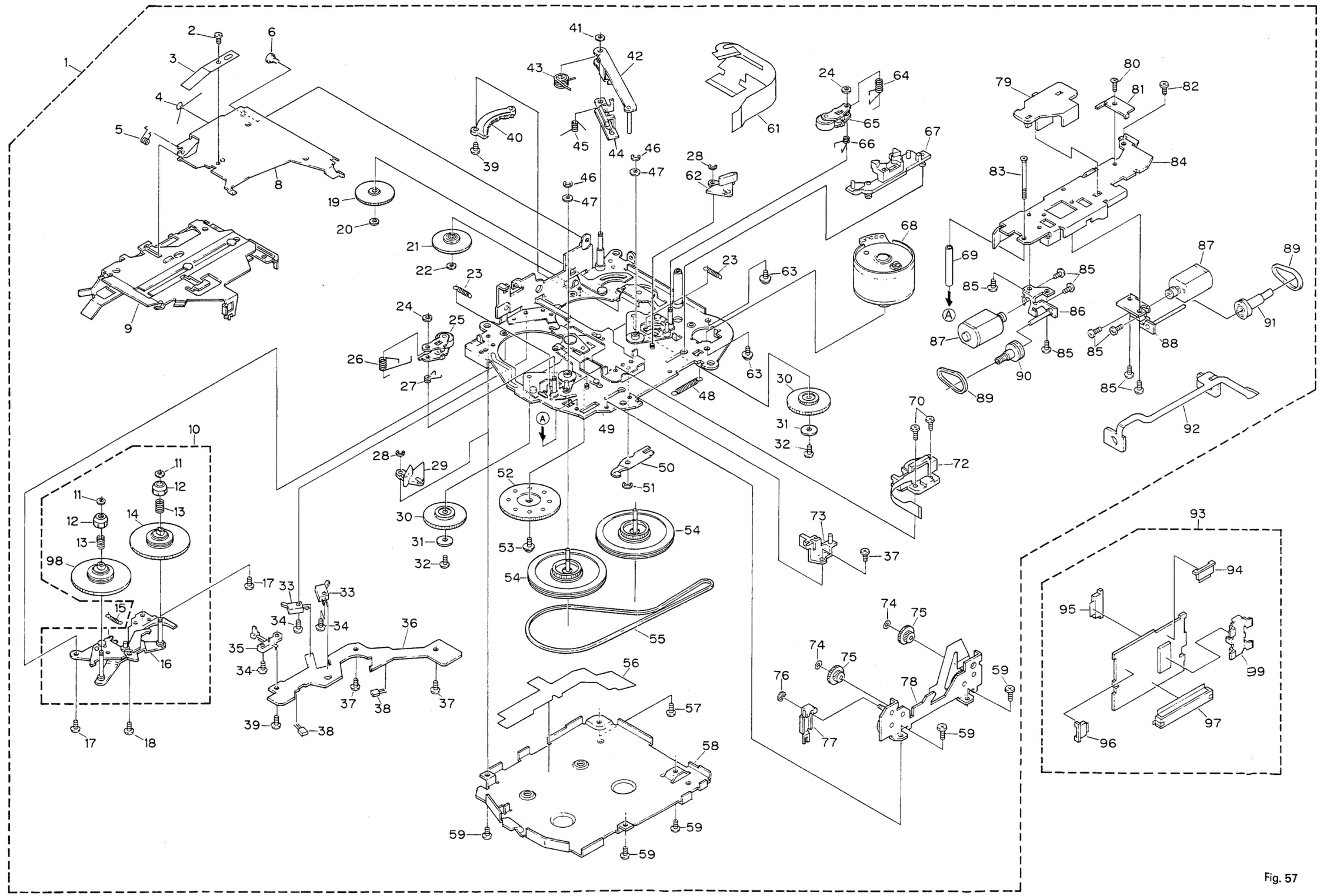


Fig. 57

17.ELECTRICAL PARTS LIST

NOTE:

- *Parts whose parts nombers are omitted are subject to being not supplied.*
- *The part numbers shown below indicate chip components.*

Chip Resistor

RS1/○S○○○J,RS1/○○S○○○J

Chip Capacitor (except for CQS.....)

CKS....., CCS....., CSZS.....

Tuner Audio Control Unit
Consists of
•Tuner P.C.Board
•Control P.C.Board
•Power Supply P.C.Board

Unit Number : CWM3411
Unit Name : Tuner Audio Control Unit

MISCELLANEOUS

====Circuit Symbol & No. Part Name====	Part No.
IC 101	CWV1034
IC 431	KHA198
IC 451	KHA232B
IC 452	NJM2068SD
IC 453	CWV1039
IC 461 462	TA2026SN
IC 501	CX-7925B
IC 502	MC74HC4066N
IC 601	PD4455A
IC 603	MC14028BCP
IC 604	PDH004A
IC 605	PA0054AD
IC 606	TC35095P
IC 607 608	MB86307P
IC 609	TC4S81F
IC 751	KHA241
Q 22 101 102 201 211 431 436 437 439 723	2SC2458
Q 103 104 105 106	DTC343TS
Q 107 517	XDC124ES
Q 108 501 502 735 871	XDA114ES
Q 202 862 870	XDC114ES
Q 432 440 531 684 685 687 721 722 725 726	XDA144ES
Q 433 714 762 851 852 861	2SD1859
Q 434 435 751	2SB942
Q 438	2SA1048
Q 441 681 682 683	XDC144ES
Q 511 515	2SC3113
Q 512 516	2SK330
Q 551 561 563 565 567 581 591	2SB1238
Q 552 554 556 562 564 566 568 592 594 712	XDC114ES
Q 553 555	2SB1243
Q 582	DTC143ES
Q 593 711	2SA1150
Q 724 752	2SC2458
Q 727 728 731 732 733 734	XDA144ES
Q 761	2SC3474
Q 863 864 865	DTB113ZV
Q 866 867 868	UN8231A
D 21 22 101 102 403 404 405 581 582 851	WG713
D 151 152 153 154 155 156 157 158 159 160	RD18JSB1
D 161 162 163 164 165 166 167 168 169 170	RD18JSB1
D 171 172 173 174 175 176 177 178 179 180	RD18JSB1
D 181 182 191 192 193 194 195 196 197 198	RD18JSB1
D 401	5KP24A
D 402	GP30ML-6373
D 431	RD6R8JSB2
D 432 433	MA204WK
D 511	RD2R7ESB1
D 513 601	MA700
D 515	RD3R0ESB1
D 681 682 683 684 685	WG713
D 711 852	RD9R1JSB1
D 721 722	RD7R5JSB3
D 751 762 763	RD5R6JSB2
D 752	RD5R1JSB1
D 761 853	ERA15-02VH
D 861	HZS2LLC
L 401 Coil	CTH1094
L 402 Coil	CTH1120
L 501 Ferri-Inductor	LAU150K
L 531 Inductor	LAU100K
L 651 751 Inductor	CTF1053
L 851 852 Coil	CTF1070
X 501 Crystal Resonator	CSS1011
X 601 Crystal Resonator	CSS1023
VR 21 Semi-fixed 2.2kΩ	VRTB6VS222
FU 401 402 Fuse 6.3A	CEK1008
U 21 FM/AM Unit	
U 602 COMM Unit	

RESISTORS

====Circuit Symbol & No. Part Name====	Part No.
R 22	RS1/10S683J
R 25 517 582 594 649 725	RS1/10S472J
R 26 203 205 424 426 510 513 515 518 555	RS1/10S102J
R 101 102 752 753 867	RS1/10S222J
R 103 104 213 423 425 427 512 552 601 603	RS1/10S222J
R 105 106 109 110 516	RS1/10S152J
R 107 108 111 112 432 451 452 534 618	RS1/10S223J
R 113 114	RS1/10S182J
R 115	RD1/4PS100JL
R 117 118 212 430 505 536 537 538 539 563	RS1/10S473J
R 201 211 465 466	RS1/10S153J
R 202	RS1/10S563J
R 204 504	RS1/10S332J
R 206	RS1/10S102J
R 210	RS1/10S102J
R 215 216	RS1/10S822J
R 231	RS1/10S105J
R 232 402 403 511 519 551 553 554 759 855	RS1/10S103J
R 233 520 574 709	RS1/10S272J
R 401	RS1/10S103J
R 404 405	RD1/4PS103JL
R 409 413 453 454 455 456 457 458 459 460	RD1/4PS221JL
R 417 421	RD1/4PS221JL
R 422	RD1/4PS472JL
R 428 429 431 433 434 532 533 604 606 608	RS1/10S104J
R 435	RS1/10S133J
R 436 866	RD1/4PS101JL
R 437	RD1/4PS820JL
R 439	RD1/4PS6R8JL
R 440 441 442 443	RD1/4PSR47JL
R 471 472	RS1/10S183J
R 501 502 503 535 615 619 648 678	RS1/10S471J
R 540	RS1/10S104J
R 557 561 564 567 570 581 591 593 616 655	RS1/10S103J
R 558 592 607 611 613 614 620 621 622 631	RS1/10S102J
R 562 595	RD1/4PS222JL
R 565 568 571	RS1/10S392J
R 566 569 572 602 612 624 626 628 630 634	RS1/10S473J
R 583 596 851 865	RD1/4PS102JL
R 584	RD1/4PS391JL
R 609 617 635 650	RS1/10S681J
R 610 636 639 641 647 665 690 691 722 724	RS1/10S104J
R 623 625 627 629 637 638 643 656 658 660	RS1/10S222J
R 632 633 640 646 653 654 664 670 672 674	RS1/10S102J
R 642 644 645 652 657 659 661 663 667 668	RS1/10S473J
R 651 696 698 854	RS1/10S223J
R 662 666 697 701 702 703 704 705 706 712	RS1/10S222J
R 669 671 675 707 708 715 721 723	RS1/10S473J
R 676 681 682 710 711 716 717 756	RS1/10S103J
R 677 685 686 688 689 692 693 694 695 714	RS1/10S102J
R 687	RS1/10S102J
R 718	RS1/10S122J
R 751	RD1/4PS223JL
R 755	RS1/8S6R8K
R 758	RD1/4PS471JL
R 852 853 856 857	RD1/4PS560JL
R 861	RD1/4PS8R2JL
R 863 864	RD1/4PS110JL

CAPACITORS

====Circuit Symbol & No. Part Name====	Part No.
C 22	CEASR22M50
C 101 102	CKSQYB563K25
C 103 104 105 106 403 458 693	CEA2R2M50LS2
C 107 711 764 769 854 855	CEA101M10LS
C 110	CKSQYB223K25
C 201 220 451 452 501 505 722 724	CCSQCH101J50
C 202 581 751 755	CEAS010M50
C 211	CEA010M50NPLL
C 212	CKSQYB102K50
C 401 402 410 1000μF/16V	CCH1003
C 404	CEAS2R2M50
C 405 406 407 408 409 591 592 593 594	CGCYX473K25
C 411 459 473 474 475 476 477 478 479 480	CKSQYB102K50
C 412 502 506 515 517 605	CKSQYB103K25
C 431	CEAS4R7M25
C 432	CEAS101M16
C 433	CEAR33M50NPLL
C 453 454 455 456 481 482	CEA4R7M16NPLL
C 457 461 462 463 464 533	CEA100M16LS2
C 465 466 467 468 469 470 471 472 651 762	CEA100M16LS2
C 483 484 485 486 487 488 489 853	CKSQYB473K25
C 490 532 552 554 556 652 691 692 694 707	CKSQYB473K25
C 493	CKSQYB473K25
C 503	CCSQCH150J50
C 504	CCSQCH120J50
C 507 551 766	CEAS470M16
C 511	CKSQYB222K50
C 512	CQMA473J50
C 516 4.7μF/16V	CCH1005
C 518	CEASR47M50
C 531 601 604 606 607 701 702 703 704 705	CKSQYB102K50
C 602	CCSQCH090D50
C 603	CCSQCH330J50
C 706 725	CKSQYB102K50
C 712 715 721 723 754 758 763 767 768 852	CKSQYB473K25
C 713 716 761	CEAS221M16
C 714 851	CEA470M16LS
C 752	CEAS100M16
C 753 756 759 470μF/16V	CCH-114
C 757	CEAS220M16
C 765 0.1F/5.5V	CCL1023

Unit Number :
Unit Name : FM/AM Unit

MISCELLANEOUS

====Circuit Symbol & No. Part Name====	Part No.
IC 51	PA4019A
IC 201	PAF001A
Q 1 5	DTC124EU
Q 3 71 123	2SC4116
Q 10 51 131	DTC124EU
Q 11	DTC124EU
Q 52	2SC4116
Q 124	2SA1586
Q 125	2SC4116
Q 126	2SC4116
Q 201	FC12(12G)
Q 202	2SC4116
Q 231	DTC124EU
D 201 204	MA157-MR
D 205	SVC203CP
L 1 Inductor	LCTA150K3225
L 2 Inductor	LCTBR12K2125
L 51 Inductor	LCTA150K3225
L 52 Inductor	LCTA220K3225
L 71 Inductor	LCTB3R9K2125
L 101 Inductor	LCTA102K4532
L 201 Coil	CTB1086
L 202 Coil	CTB1082
L 203 Inductor	LCTB390K2125
L 204 Inductor	LCTB680K2125
L 205 Inductor	CTF1198
L 206 Inductor	CTF1197
T 51 Coil	CTE1067
T 52 Coil	CTE1068
T 71 Coil	CTE1058
T 203 Coil	CTB1076
T 204 Coil	CTE1064
T 205 Coil	CTE1060
T 206 Coil	CTE1061
TH 51 Thermister	DTN-T204D333K
TH 102 Thermister	CCX1021
CF 52 53 Ceramic Filter	CTF1193
CF 201 Crystal Filter	CTF1262
CF 202 Ceramic Filter	CTF1191
X 151 Ceramic Resonator	CSS1075
X 201 Crystal Resonator	CSS1094
VR 3 Semi-fixed 10kΩ(B)	CCP1181
VR 51 101 102 Semi-fixed 33kΩ(B)	CCP1184
AR 1 Surge Protector	DSP-141N
FE 1 FM Front End	CWB1070

====Circuit Symbol & No. Part Name====	Part No.
RESISTORS	
R 4	RS1/16S102J
R 5	RS1/16S472J
R 6 239	RS1/16S392J
R 7 8 9	RS1/16S0R0J
R 10	RS1/16S103J
R 54	RS1/10S562J
R 56	RS1/16S333J
R 57	RS1/16S153J
R 58	RS1/16S273J
R 59 74	RS1/16S331J
R 60	RS1/16S333J
R 66	RS1/16S153J
R 72	RS1/16S123J
R 73 211 212 236 237 238	RS1/16S103J
R 75	RS1/16S102J
R 76	RS1/16S221J
R 100	RS1/16S153J
R 101	RS1/10S331J
R 102 111	RS1/16S183J
R 104	RS1/16S102J
R 105	RS1/16S333J
R 106	RS1/16S684J
R 108	RS1/16S333J
R 120	RS1/16S684J
R 121 149	RS1/16S104J
R 122	RS1/16S124J
R 123	RS1/16S273J
R 127	RS1/16S103J
R 128	RS1/16S103J
R 129	RS1/16S104J
R 133	RS1/16S333J
R 134	RS1/16S0R0J
R 136	RS1/16S563J
R 138	RS1/16S0R0J
R 139	RS1/16S472J
R 140	RS1/16S103J
R 141	RS1/16S334J
R 142	RS1/16S0R0J
R 143	RS1/16S393J
R 148	RS1/10S222J
R 151 152	RS1/16S332J
R 153	RS1/16S222J
R 201	RS1/16S220J
R 202	RS1/10S681J
R 203	RS1/16S222J
R 204	RS1/16S473J
R 205 209	RS1/16S470J
R 207	RS1/10S822J
R 231	RS1/16S823J
R 232	RS1/10S102J
R 233	RS1/16S222J
R 235	RS1/16S104J
R 240	RS1/16S473J
R 241 242	RS1/16S103J
R 243	RS1/16S152J
R 244	RS1/16S242J
R 249	RS1/16S225J
CAPACITORS	
C 1 111	CEV100M16
C 2 51 59 233	CKSRYF473Z25
C 5	CKSQYB472K50
C 52 53 61	CKSRYB223K25
C 54	CCSQCH101J50

====Circuit Symbol & No. Part Name====	Part No.
C 56	CKSRYF104Z25
C 57	CSZSR33M25
C 58	CCSRCH070D50
C 60	CEVNP100M10
C 62	CCSRPH820J50
C 63	CCSRPH470J50
C 72 73 80 104	CKSRYB103K50
C 74 129 158	CKSRYF473Z25
C 101 102	CKSRYB682K50
C 103	CKSQYB152K50
C 105	CEVR47M50
C 106	CKSQYB104K25
C 107 108	CKSRYB222K50
C 110	CKSYB154K25
C 112	CKSYB683K25
C 122	CKSYB104K50
C 123	CKSYB224K25
C 124	CSZS3R3M10
C 126	CEV100M16
C 128	CKSRYB223K25
C 131	CCSRCH820J50
C 151 152	CKSQYB183K25
C 153	CSZSR47M20
C 154 155 156	CEV3R3M50
C 157	CEV101M10
C 201 216 241	CKSRYB103K50
C 202 212	CKSRYB332K50
C 203	CSZS3R3M10
C 204	CKSQYB223K25
C 205 221	CCSRCH120J50
C 206	CCSRCH560J50
C 207	CCSRCH680J50
C 208	CKSRYB223K25
C 210	CKSQYB103K50
C 211 235	CEVR47M50
C 213	CCSQCH220J50
C 215	CKSRYF473Z25
C 220	CCSRCH430J50
C 224 229	CEV470M16
C 225	CKSQYB333K25
C 226	CKSQYB473K25
C 231	CCSRCH100D50
C 232 234 244	CKSRYB103K50
C 236	CKSYB104K50
C 237	CEV4R7M35
C 238	CEV3R3M50
C 239	CKSRYB223K25
C 242	CCSRCH030C50

Unit Number :
Unit Name : COMM Unit

MISCELLANEOUS

IC 601		PD5221A
IC 602		MSM82C51A-2GS
IC 603 604		SC7S04F
IC 605		ON1131
IC 606		SC7S02F
Q 601		DTC144EU
Q 602		DTC143EU
Q 603		DTC114EU
Q 604		DTA114EU
L 601	Inductor	LCTA101K3225
X 601	Ceramic Resonator	CSS1084

KEX-M9136ZT

====Circuit Symbol & No. Part Name====	Part No.
RESISTORS	
R 601 603 604 609 610	RS1/16S104J
R 602 605 632	RS1/16S473J
R 606 607 618 619 620 626	RS1/16S102J
R 608 612	RS1/16S104J
R 611	RS1/16S223J
R 613 614 615 616	RS1/16S681J
R 617	RS1/16S471J
R 621	RS1/16S474J
R 622	RS1/16S105J
R 623 627	RS1/16S471J
R 624 625 631	RS1/16S473J
R 628	RS1/16S102J
R 629	RS1/16S331J
R 630	RS1/16S562J
R 651 652 655 656 657 658 659 660	RA4C104J
R 653 654	RA4C473J
R 661 662 663	RA4C102J
CAPACITORS	
C 601 603 605	CKSQYB102K50
C 602	CCSQCH330J50
C 604 606 608	CKSQYB473K16
C 607	CEV101M10

Key Board Unit
Consists of
•Key Board P.C.Board
•Volume P.C.Board(1)
•Volume P.C.Board(2)

Unit Number: CWS1251(KEX-M9136ZT/EW)
Unit Number: CWS1250(KEX-M9036ZT/EW)
Unit Name : Key Board Unit

MISCELLANEOUS

IC 901		LC7582ASP
Q 901 902 903 904 905 906 907 908 909 910		UN7231
Q 911		UN7231
Q 912 913 914 915		DTB113ZK
Q 916		DTC114EK
IL 901 902	Lamp	CEL1247
IL 903 904 905 906	Lamp	CEL1309
IL 907 908 909 910	Lamp	CEL1309
IL 911 912 913 914	Lamp	CEL1309
IL 915 916 917	Lamp	CEL1309
IL 918 919 920	Lamp	CEL1308
VR 901 902 903	Volume 50kΩ(B)	CCS1131
VR 904 905	Volume 50kΩ(B)	CCS1131
VR 906	Volume/Switch 50kΩ(B)	CCS1106
LCD901	LCD	CAW1201

RESISTORS

R 901 902 903 904 926	RS1/10S102J
R 905	RS1/10S104J
R 906 907	RS1/8S150J
R 908 910 912 914 915 916 917 918 919 920	RS1/8S3R9J
R 909 911 913 922 923 924 925	RS1/8S4R7J
R 921	RS1/8S3R9J
R 927	RS1/10S105J
R 928	RS1/10S473J
R 929 930	RS1/10S103J

====Circuit Symbol & No. Part Name====	Part No.
CAPACITORS	
C 901	CCSQCH331J50
C 902	CKSQYB102K50
C 903	CCSQCH101J50

Unit Number: CWM3744
Unit Name : Deck Unit

MISCELLANEOUS

IC 251		HA12163
IC 351		PA3028A
Q 322		DTC114YU
D 351		IMN10
VR 301 302	Semi-fixed 33kΩ(B)	CCP1130

RESISTORS

R 251 252	RS1/10S104J
R 253 254	RS1/10S104J
R 255 256	RS1/10S181J
R 257 258	RS1/10S133J
R 259 260 265 326	RS1/10S183J
R 261 262 403 405	RS1/10S274J
R 271 272 273	RS1/10S103J
R 274	RS1/10S102J
R 275	RS1/10S223J
R 322	RS1/10S123J
R 324	RS1/10S103J
R 401	RS1/10S273J
R 402	RS1/10S223J
R 404	RS1/10S823J

CAPACITORS

C 251 252	CKSQYB391K50
C 253 254	CKSQYB391K50
C 255 256	CKSQYB103K50
C 257 258	CEVNP010M50
C 265	CEV010M50
C 271	CKSQYB104K25
C 301 302	CEVNPR47M50
C 309 310	CKSQYB104K16
C 351 352 353	CEV470M16
C 354	CKSQYB223K50
C 355	CKSYF684Z16
C 356 357 358 359 360 361	CKSQYB473K50
C 401	CKSQYB183K50
C 402	CKSQYB823K50
C 403	CKSQYB333K50
C 404	CKSQYB473K50

Unit Number:
Unit Name : Switch P.C.Board

S 1	Switch(CST SET)	CSN-089
S 2 3	Switch(CST IN,70μS)	CSN1023
MR 1 2	Magnetic Resistive Device	DM-106B

Miscellaneous Parts List

HD 1	Head Unit	CXA5116
M 1 2	Motor Unit(Head,FF/REW)	CXA4577
M 3	Motor(Capstan)	CXM1062
	RDS Unit	CAY1011

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